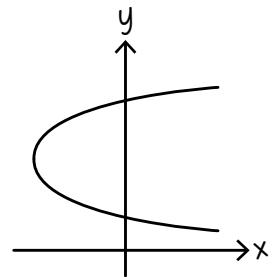
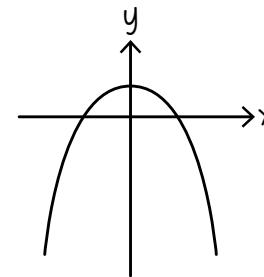
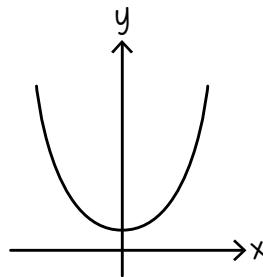
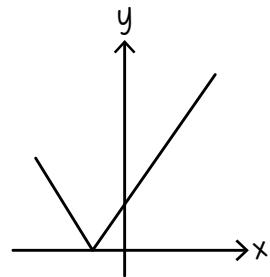
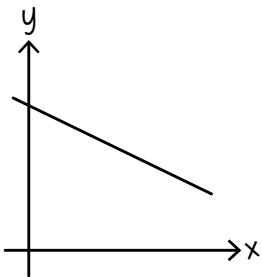
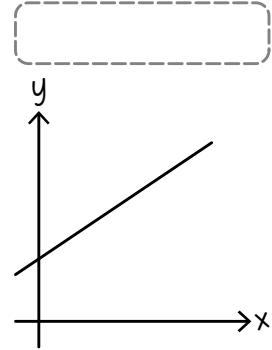
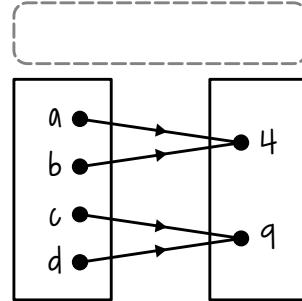
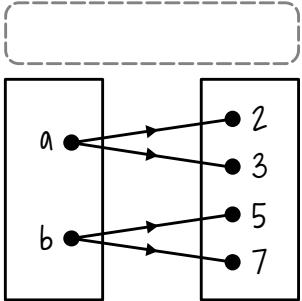
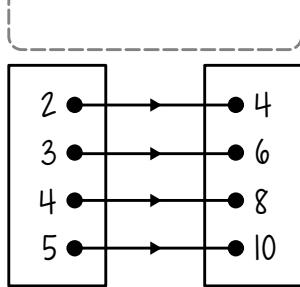
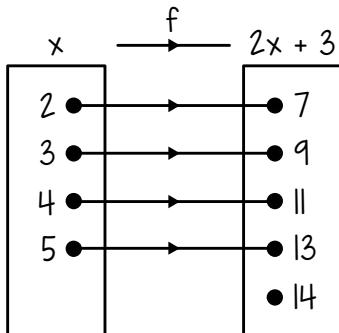


WORKSHEET 1: FUNGSI

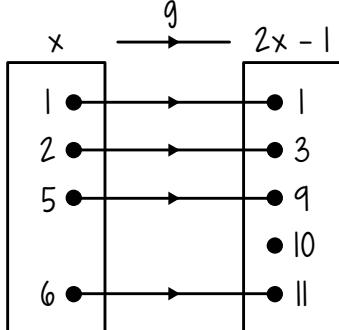
tentukan setiap yang berikut fungsi atau bukan fungsi



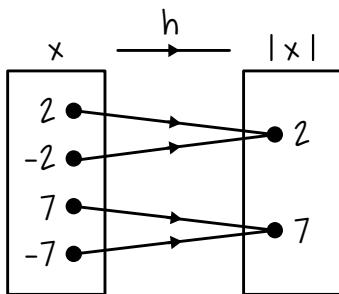
lengkapkan jadual berikut



domain = { }		
kodomain = { }		
julat = { }		
$f(2) =$	$f(4) =$	$f(5) =$
$f^{-1}(11) =$	$f^{-1}(7) =$	$f^{-1}(9) =$



domain = { }		
kodomain = { }		
julat = { }		
$g(6) =$	$g(2) =$	$g(5) =$
$g^{-1}(1) =$	$g^{-1}(9) =$	$g^{-1}(11) =$



domain = { }		
kodomain = { }		
julat = { }		
$h(2) =$	$h(-2) =$	$h(-7) =$
$h(7) =$	$h^{-1}(2) =$	$h^{-1}(7) =$

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WORKSHEET 2: GRAF MODULUS

lukiskan graf bagi setiap yang berikut

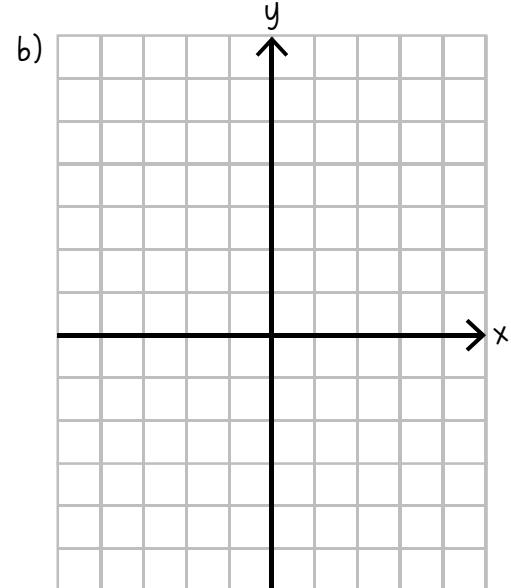
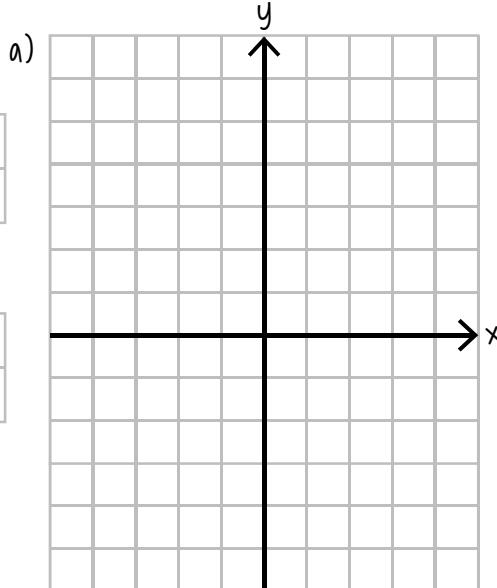
- 1.** domain $-2 \leq x \leq 4$

a) $y = 2x - 4$

x						
y						

b) $y = |2x - 4|$

x						
y						



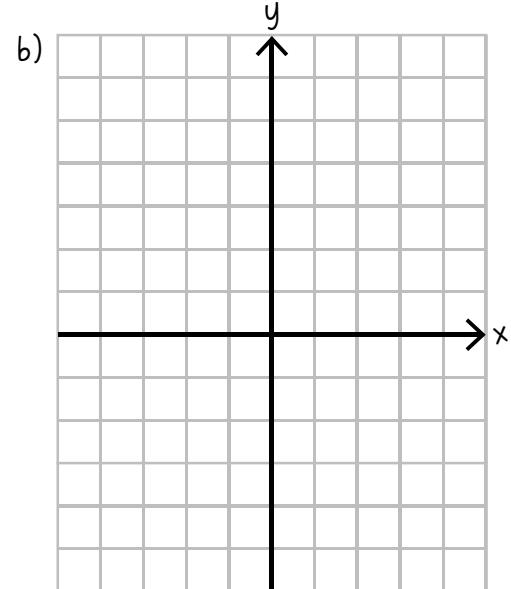
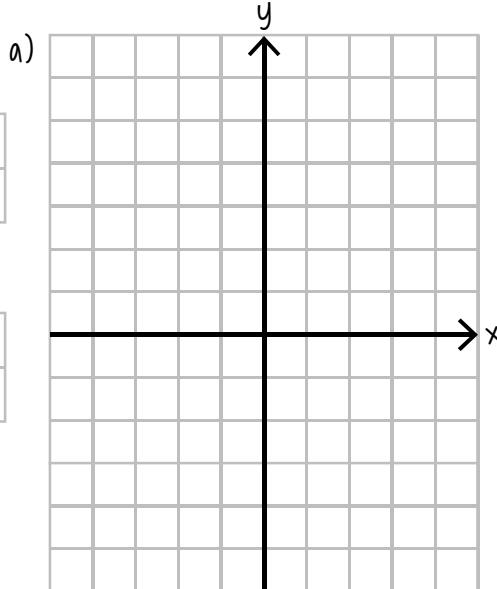
- 2.** domain $-2 \leq x \leq 4$

a) $y = 2x - 6$

x						
y						

b) $y = |2x - 6|$

x						
y						



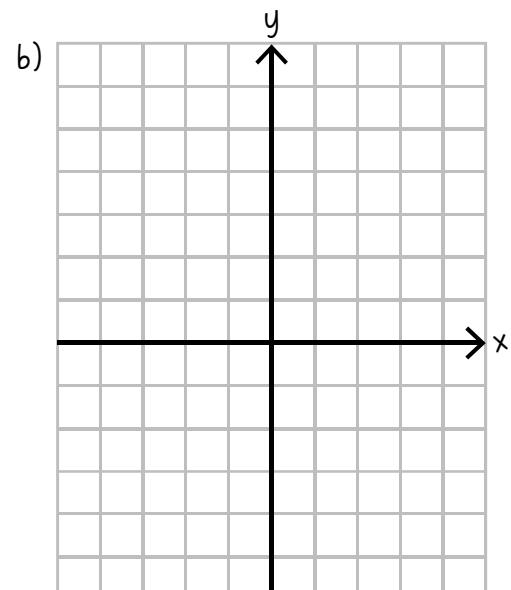
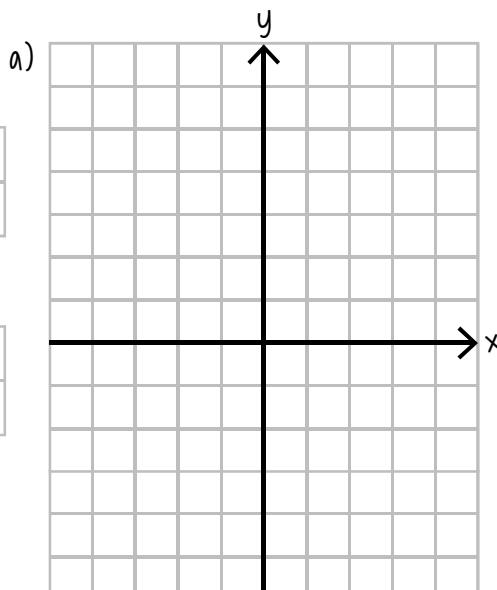
- 3.** domain $-3 \leq x \leq 3$

a) $y = 2x - 3$

x						
y						

b) $y = |2x - 3|$

x						
y						



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WORKSHEET 2: GRAF MODULUS

lukiskan graf bagi setiap yang berikut

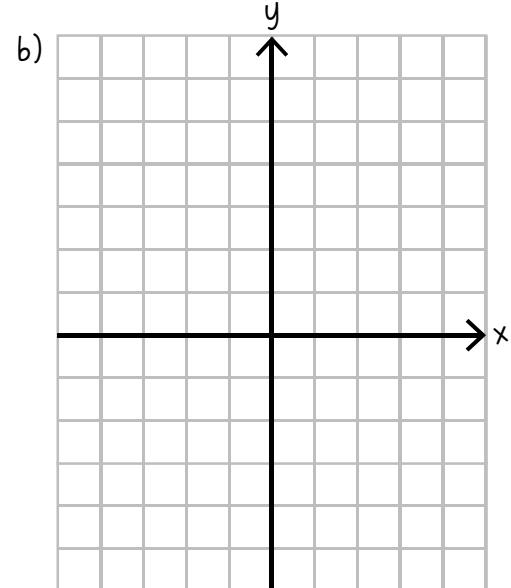
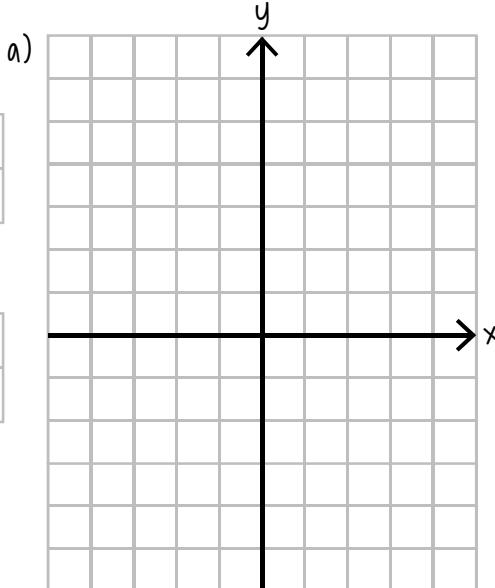
- 4.** domain $-2 \leq x \leq 4$

a) $y = 2x - 5$

x						
y						

b) $y = |2x - 5|$

x						
y						



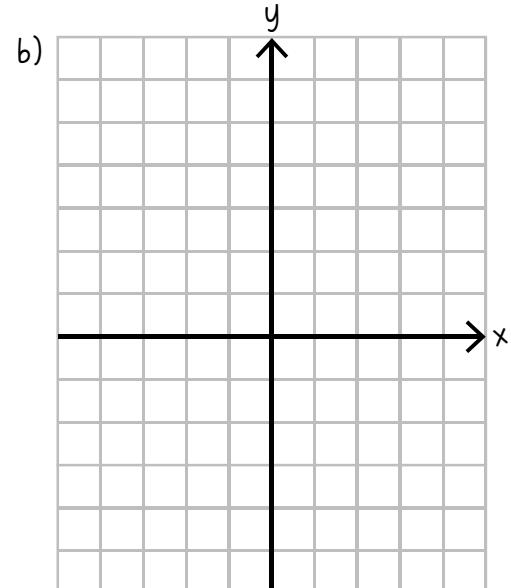
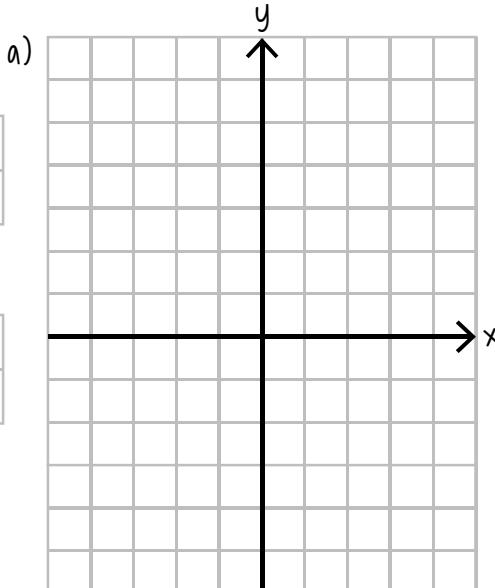
- 5.** domain $-3 \leq x \leq 3$

a) $y = -3x + 1$

x						
y						

b) $y = |-3x + 1|$

x						
y						



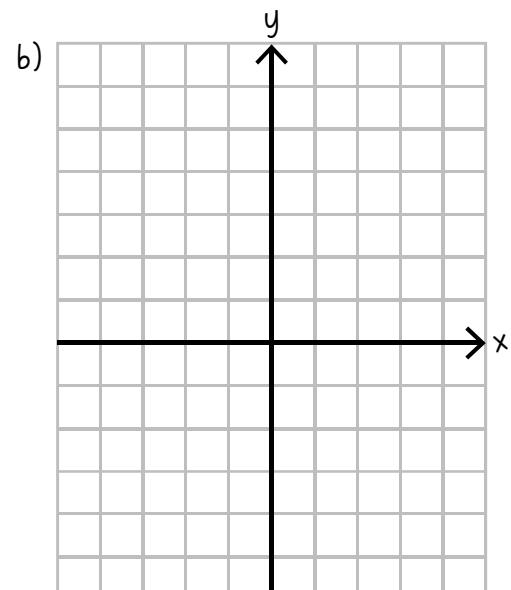
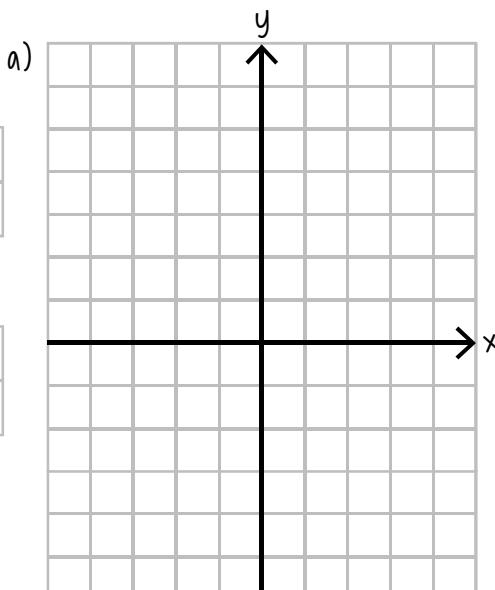
- 6.** domain $-2 \leq x \leq 4$

a) $y = -3x + 4$

x						
y						

b) $y = |-3x + 4|$

x						
y						



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WORKSHEET 3: MENENTUKAN IMEJ ATAU OBJEK SUATU FUNGSI

[4]

selesaikan setiap yang berikut

1. $f: x \rightarrow 2x - \frac{5}{x}$, $x \neq 0$

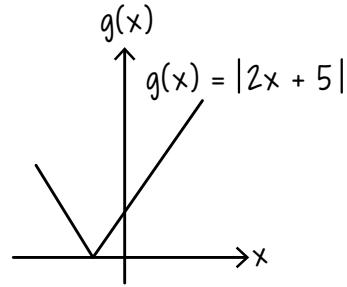
Cari:

- $f(4)$
- imej bagi $\frac{1}{2}$ bawah f.
- nilai-nilai x yang mungkin apabila imejnya ialah -3.

2. $h: x \rightarrow 3 + \frac{12}{x-2}$, $x \neq 2$

- cari imej bagi 3 dan -4
- imej bagi $h(a) = a$, cari nilai-nilai yang mungkin bagi a.

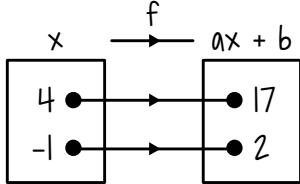
3.



Cari:

- $g(-3)$ dan $g(-2)$
- nilai-nilai x dengan $g(x) = 13$
- nilai-nilai x yang memetakan kepada dirinya sendiri.
- domain bagi $g(x) < 9$
- domain bagi $g(x) \geq 15$

4.



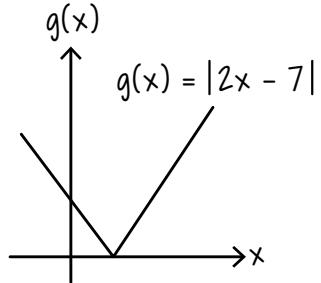
Cari nilai a dan b.

5. $f: x \rightarrow 3x - \frac{4}{x}$, $x \neq 0$

Cari:

- $f(-2)$
- imej bagi $\frac{1}{3}$ bawah f.
- nilai-nilai x yang mungkin apabila imejnya ialah 4.

6.



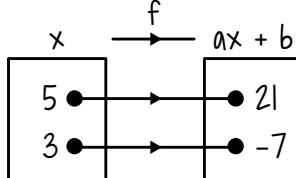
Cari:

- $g(1)$ dan $g(-4)$
- nilai-nilai x dengan $g(x) = 23$
- nilai-nilai x yang memetakan kepada dirinya sendiri.
- domain bagi $g(x) < 3$
- domain bagi $g(x) \geq 17$

7. $h: x \rightarrow 5 + \frac{8}{x-3}$, $x \neq 3$

- cari imej bagi -1 dan 5
- imej bagi $h(a) = a$, cari nilai-nilai yang mungkin bagi a.

8.



Cari nilai a dan b.

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WORKSHEET 4: FUNGSI GUBAHANtentukan $f_g(x)$, $gf(x)$, $ff(x)$ dan $gg(x)$

1. $f(x) = 3x + 5$
 $g(x) = 2x - 7$

2. $f(x) = 2x - 1$
 $g(x) = 3x + 8$

3. $f(x) = -4x + 9$
 $g(x) = 5 - 2x$

4. $f(x) = -8x + 3$
 $g(x) = -6 - 7x$

5. $f(x) = x^2$
 $g(x) = 3x + 2$

6. $f(x) = 5 - 2x$
 $g(x) = x^2$

7. $f(x) = x^2 + 6$
 $g(x) = 2x - 1$

8. $f(x) = 7 + x$
 $g(x) = x^2 - 14$

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WORKSHEET 4: FUNGSI GUBAHANtentukan $f(g(x))$, $gf(x)$, $ff(x)$ dan $gg(x)$

9. $f(x) = \frac{x}{2}$
 $g(x) = 2x + 8$

10. $f(x) = \frac{x}{3}$
 $g(x) = 6x - 3$

11. $f(x) = \frac{4x}{3}$
 $g(x) = 1 - 6x$

12. $f(x) = \frac{5x}{2}$
 $g(x) = 7 + 4x$

13. $f(x) = \frac{2x + 1}{3}$
 $g(x) = -x + 4$

14. $f(x) = \frac{5 + 3x}{2}$
 $g(x) = 8 - x$

15. $f(x) = \frac{-2x + 7}{4}$
 $g(x) = 3 - 5x$

16. $f(x) = \frac{-3x + 8}{5}$
 $g(x) = 2 - 4x$

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WORKSHEET 5: FUNGSI GUBAHAN

selesaikan setiap yang berikut

1. $fg(x) = 5x + 8$
 $f(x) = x - 12$
 $g(x) = ?$

2. $fg(x) = -2x + 7$
 $f(x) = x - 9$
 $g(x) = ?$

3. $fg(x) = -4x - 11$
 $f(x) = 2x + 5$
 $g(x) = ?$

4. $fg(x) = -9x + 2$
 $f(x) = 3x - 4$
 $g(x) = ?$

5. $gf(x) = x^2 + 3$
 $f(x) = ?$
 $g(x) = x - 9$

6. $gf(x) = 2x^2 - 6x + 7$
 $f(x) = ?$
 $g(x) = 2x + 1$

7. $gf(x) = 6x^2 - 3x - 9$
 $f(x) = ?$
 $g(x) = 3x + 6$

8. $fg(x) = 4x - 3$
 $f(x) = ?$
 $g(x) = x + 5$

9. $fg(x) = 2x - 9$
 $f(x) = ?$
 $g(x) = -8 + x$

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WORKSHEET 5: FUNGSI GUBAHAN

selesaikan setiap yang berikut

10. $fg(x) = 8x - 4$
 $f(x) = ?$
 $g(x) = 2x + 5$

11. $fg(x) = 9x - 10$
 $f(x) = ?$
 $g(x) = -4 + 3x$

12. $fg(x) = -24x + 9$
 $f(x) = ?$
 $g(x) = -6x - 8$

13. $gf(x) = x^2$
 $f(x) = x - 5$
 $g(x) = ?$

14. $gf(x) = x^2$
 $f(x) = 3 - x$
 $g(x) = ?$

15. $gf(x) = x^2 + 8$
 $f(x) = x - 3$
 $g(x) = ?$

16. $gf(x) = x^2 - 10$
 $f(x) = -x + 4$
 $g(x) = ?$

17. $gf(x) = x^2 + 3x - 8$
 $f(x) = x - 1$
 $g(x) = ?$

18. $gf(x) = x^2 - 5x + 9$
 $f(x) = 7 - x$
 $g(x) = ?$

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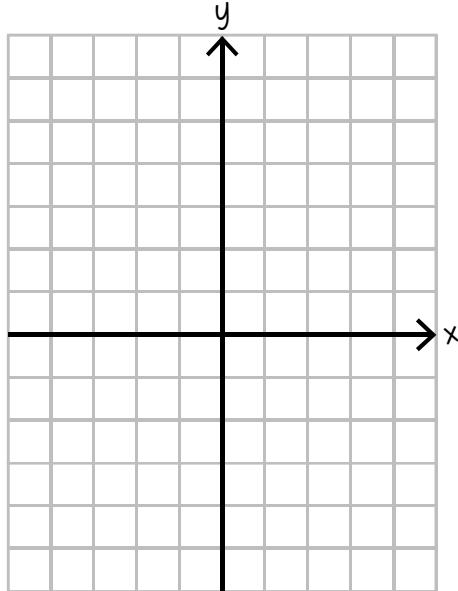
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WORKSHEET 6: GRAF FUNGSI SONGSANGlukiskan graf $f(x)$ dan $f^{-1}(x)$ bagi setiap yang berikut**1.**

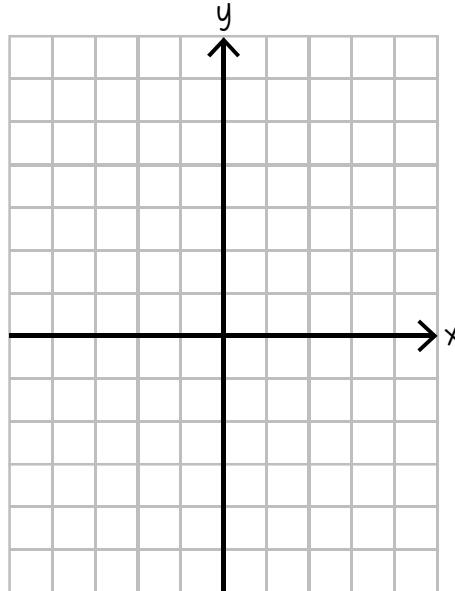
$$f(x) = 3x - 2$$

x	-2	0	4
y			

**2.**

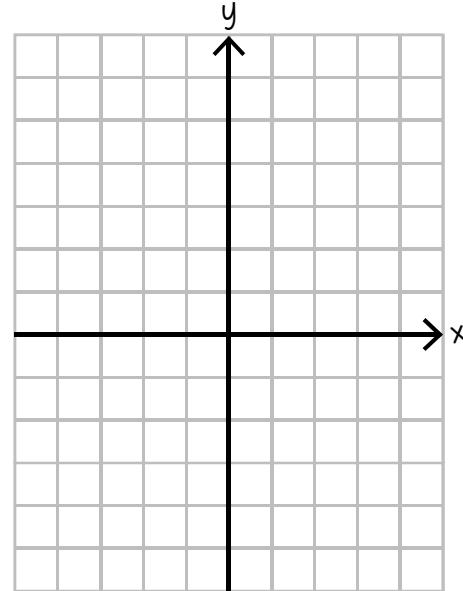
$$f(x) = 2x - 3$$

x	0	1	4
y			

**3.**

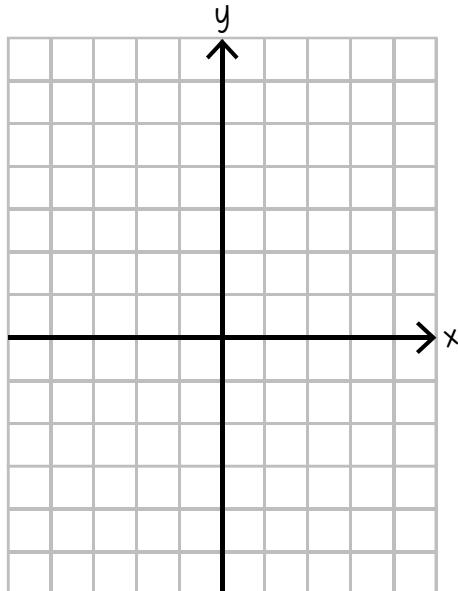
$$f(x) = -2x + 4$$

x	-2	0	6
y			

**4.**

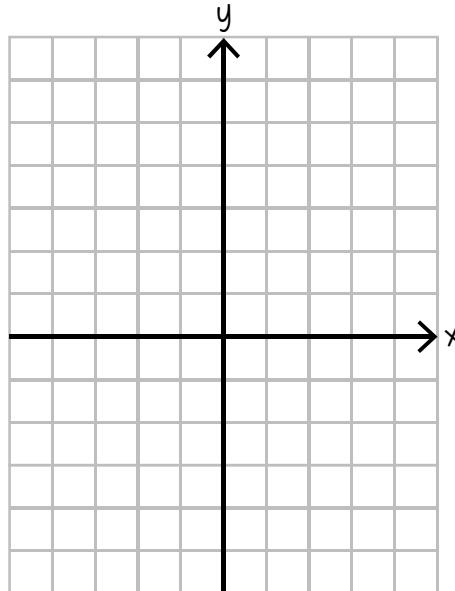
$$f(x) = x^2 + 2x - 3$$

x	0	1	2
y			

**5.**

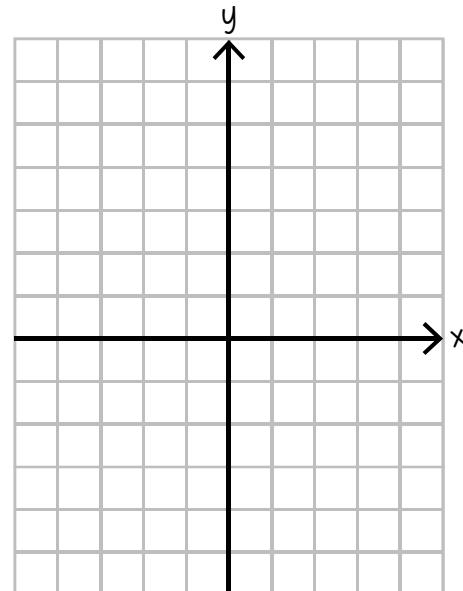
$$f(x) = x^2 + x - 4$$

x	0	1	2
y			

**6.**

$$f(x) = x^2 + 2x - 5$$

x	0	1	2
y			



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WORKSHEET 7: FUNGSI SONGSANGtentukan $f^{-1}(x)$ bagi setiap yang berikut

1. $f(x) = 3x - 8$

2. $f(x) = 4x + 7$

3. $f(x) = -2x - 9$

4. $f(x) = \frac{x - 5}{3}$

5. $f(x) = \frac{x + 9}{4}$

6. $f(x) = \frac{2x + 3}{5}$

7. $f(x) = \frac{4x - 7}{2}$

8. $f(x) = \frac{x + 5}{x - 2}$

9. $f(x) = \frac{x - 4}{x + 3}$

10. $f(x) = \frac{2x - 1}{3x + 2}$

11. $f(x) = \frac{4 - 3x}{2x - 1}$

12. $f(x) = \frac{5 - 2x}{4 + 3x}$

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WORKSHEET 7: FUNGSI SONGSANG

selesaikan setiap yang berikut

13. $f^{-1}(x) = 2x + 7$
 $f(3) = ?$

14. $f^{-1}(x) = 3x - 8$
 $f(7) = ?$

15. $f^{-1}(x) = 5 - 4x$
 $f(1) = ?$

16. $f^{-1}(x) = \frac{6}{x - 1}$
 $f(-3) = ?$

17. $f^{-1}(x) = \frac{9}{x - 4}$
 $f(2) = ?$

18. $f^{-1}(x) = \frac{3x - 1}{5}$
 $f(-2) = ?$

19. $f^{-1}(x) = \frac{7 - 4x}{2}$
 $f(5) = ?$

20. $f(x) = 2x - 3$
 $g(x) = x + 8$
 $fg^{-1}(10) = ?$

21. $f(x) = 5x + 2$
 $g(x) = x - 3$
 $fg^{-1}(4) = ?$

22. $f(x) = 4x - 10$
 $g(x) = 2x - 9$
 $fg^{-1}(-6) = ?$

23. $f(x) = 6x - 14$
 $g(x) = 3x - 7$
 $fg^{-1}(-5) = ?$

24. $f(x) = 8x + 6$
 $g(x) = 5 - 4x$
 $fg^{-1}(7) = ?$

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WORKSHEET 7: FUNGSI SONGSANG

soalan 25, 26 dan 27: tentukan samada fungsi berikut songsang antara satu sama lain

25. $f(x) = 3x - 1$

$$g(x) = \frac{x+1}{3}$$

26. $f(x) = 2 - 5x$

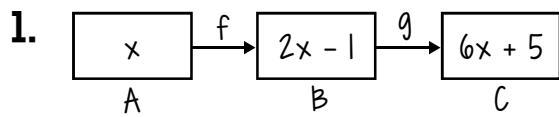
$$g(x) = \frac{-x+2}{5}$$

27. $f(x) = \frac{2}{x-3}$

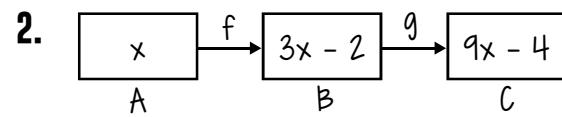
$$g(x) = \frac{3x+2}{x}$$

WORKSHEET 8: FUNGSI

selesaikan setiap yang berikut



- a) fungsi yang memetakan Set B kepada Set A, dalam sebutan x.
- b) $g(x)$
- c) nilai x apabila $fg(x) = 2x - 5$



- a) fungsi yang memetakan Set B kepada Set A, dalam sebutan x.
- b) $g(x)$
- c) nilai x apabila $fg(x) = 5x - 20$

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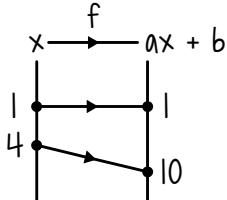
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WORKSHEET 8: FUNGSI

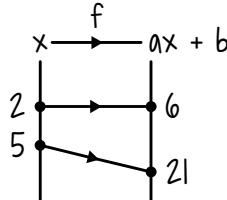
selesaikan setiap yang berikut

3.



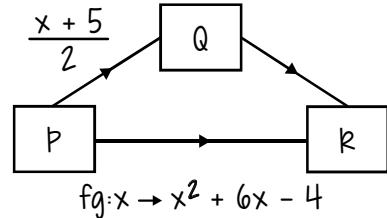
- a) nilai a dan b
b) $f^{-1}(x)$

4.



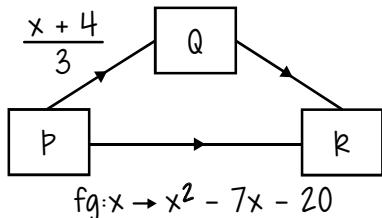
- a) nilai a dan b
b) $f^{-1}(x)$

5.



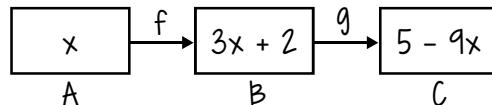
cari fungsi yang memetakan set Q kepada set R.

6.



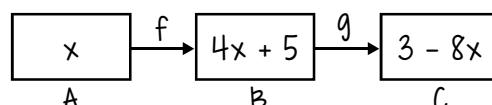
cari fungsi yang memetakan set Q kepada set R.

7.



- a) fungsi yang memetakan Set B kepada Set A, dalam sebutan x .
b) $g(x)$
c) nilai x apabila $f^{-1}g(x) = 2x - 3$

8.



- a) fungsi yang memetakan Set B kepada Set A, dalam sebutan x .
b) $g(x)$
c) nilai x apabila $f^{-1}g(x) = -x + 2$

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