Chapter 2 Review Key

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1. $d = \sqrt{(-7+1)^2 + (6+6)^2}$

$6\sqrt{5}$

2. $\frac{2+8}{2}, \frac{-6+7}{2}$

$\left(-3, \frac{+13}{2}\right)$

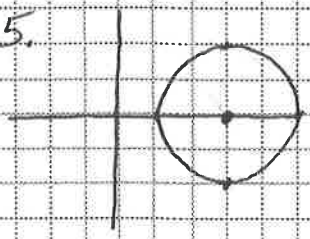
3. YES

$\left(\sqrt{8}\right)^2 + \left(\sqrt{242}\right)^2 = \sqrt{250}^2$

4. NO

$\sqrt{113} + \sqrt{2} \neq \sqrt{113}$

5.



6. Yes it is a circle

$(x-1)^2 + (y+3)^2 = 5$

7. $(8,-5)\ (6,-1)$

$6 \quad -2 \quad -1 \quad +4$

$\boxed{(4,3)}$

8. It is a function. Each year is paired with only one #

9. It is a function It passes the vertical line test

10. Dec $(-\infty, 3]$

Inc $[3, \infty)$

Con $[-3, 3]$

11. $y = \frac{2}{7}x - \frac{37}{7}$

or $2x - 7y = 37$

12. $y = \frac{-8}{3}x + \frac{35}{3}$

or $8x + 3y = 35$

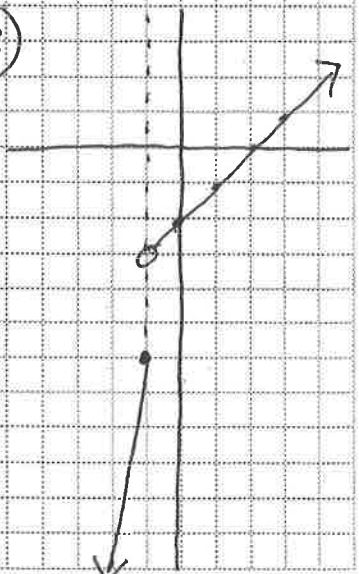
13. $m = 6$

$b = 9$

14. $y = \frac{2}{5}x$

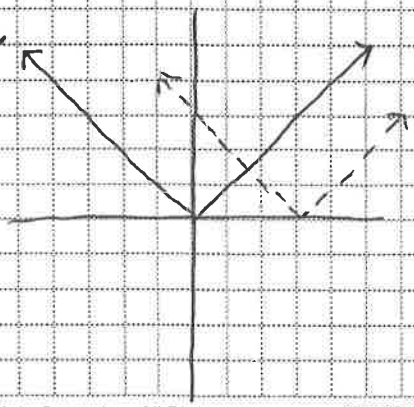
15. A) $f(-2) = 6(-2) = -12$

B)



16. Right 8 and up 4

17.



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18.

19. Even

20. ODD

21. $(f-g)(x) = -2x - 5$

D: $(-\infty, \infty)$

22. $\left(\frac{f}{g}\right)(x) = \frac{9x^2 - 7x}{x^2 - 3x - 28}$

D: $(-\infty, -4) \cup (-4, 7) \cup (7, \infty)$

23. $(f \circ g)(x) = 15x + 10$

D: $(-\infty, \infty)$

24. $\sqrt{8x-4}$ or $2\sqrt{2x-1}$

D: $\left[\frac{1}{2}, \infty\right)$