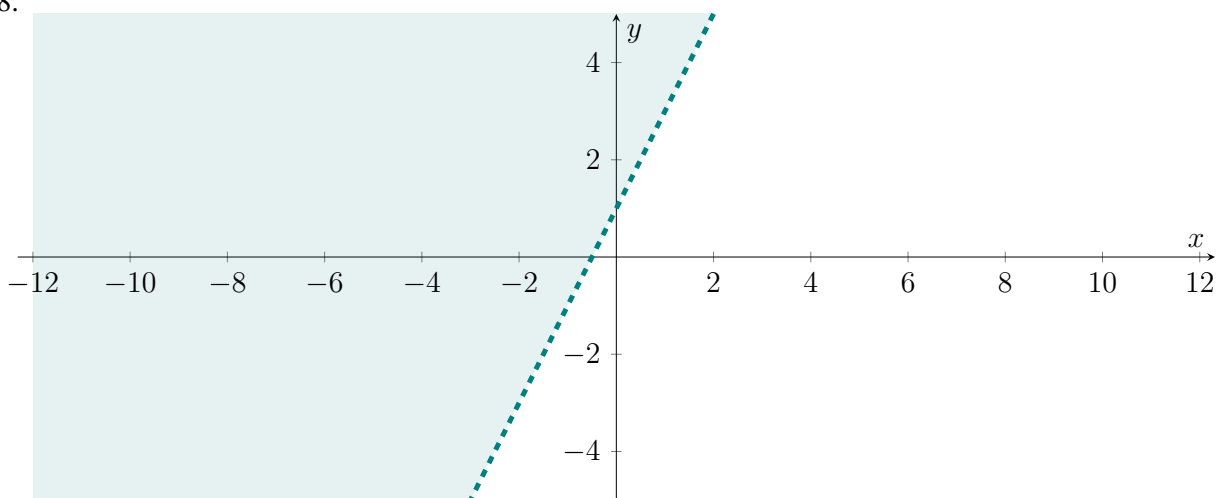
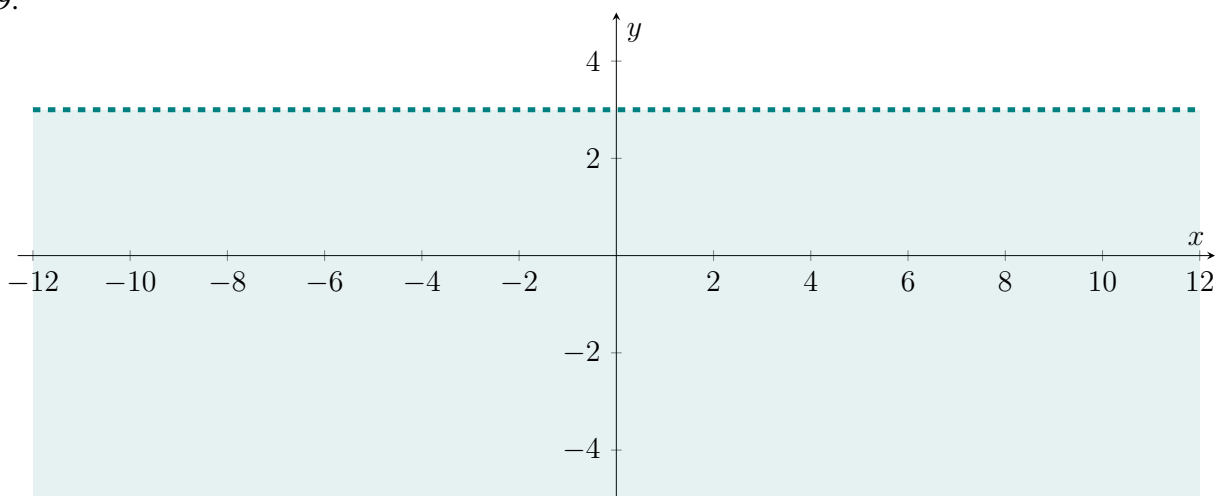


**Absolute Value Functions (2.8): 8-11, 18-20, 27-29**

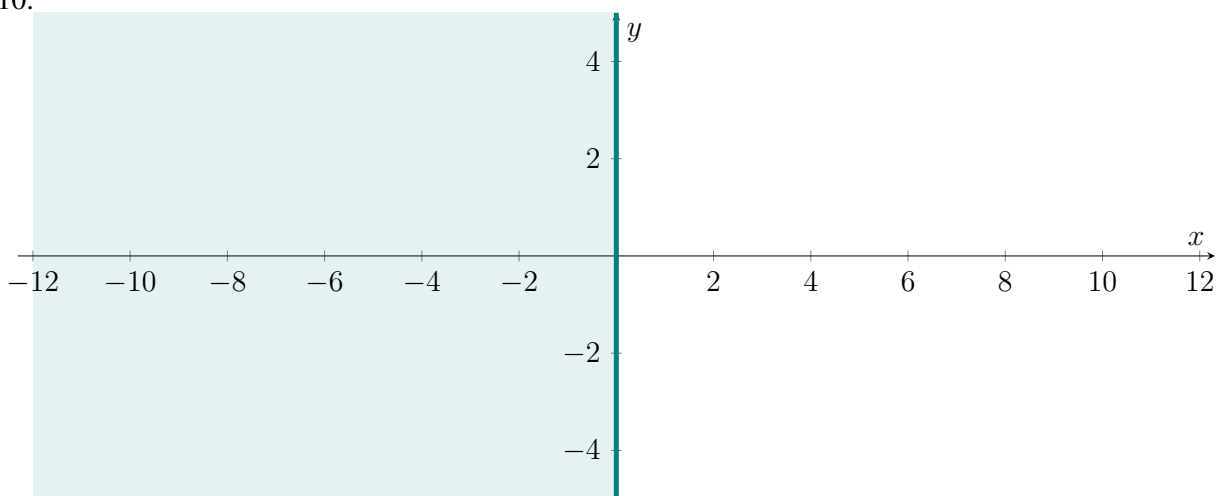
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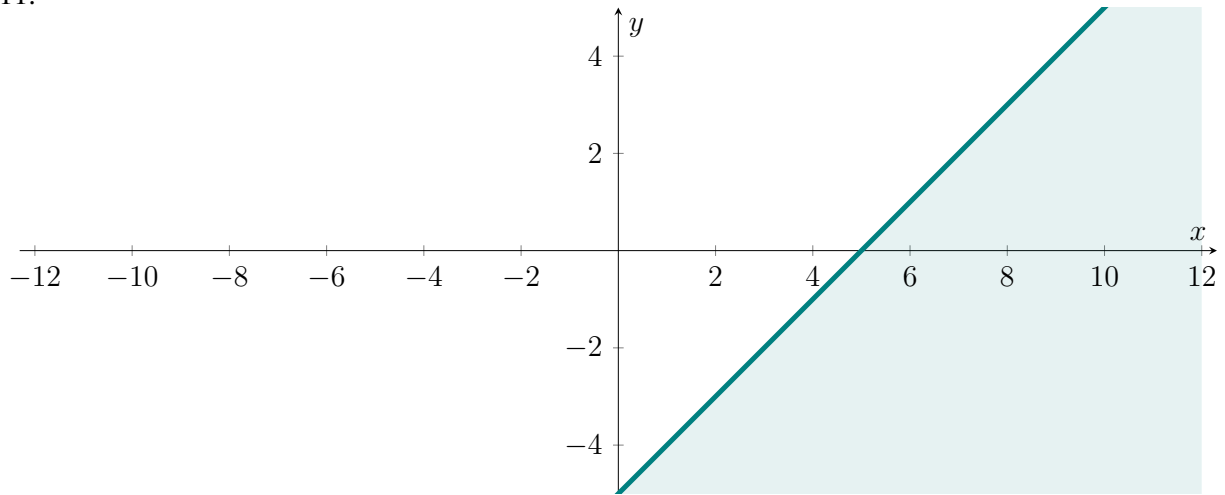
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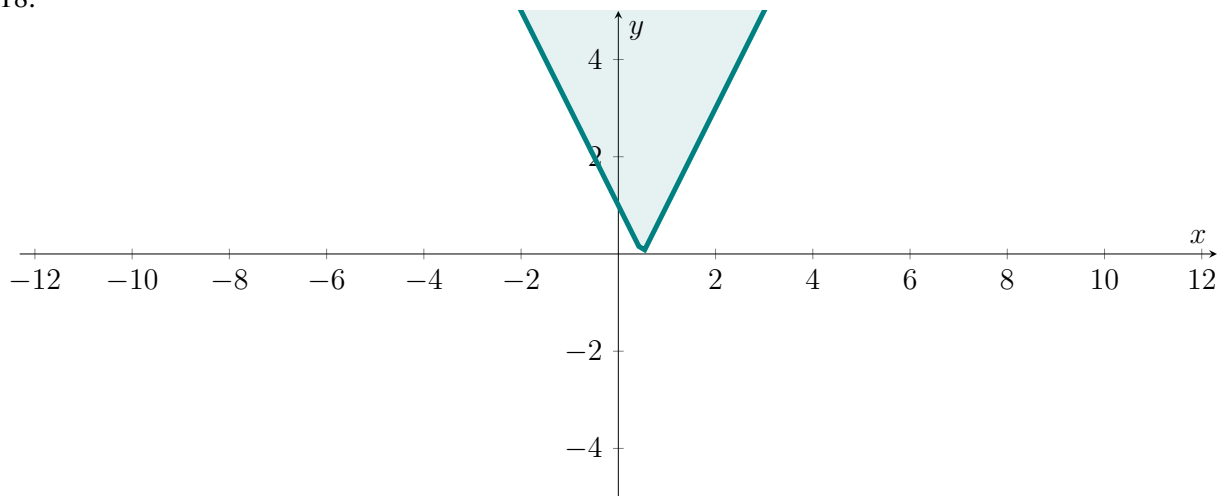
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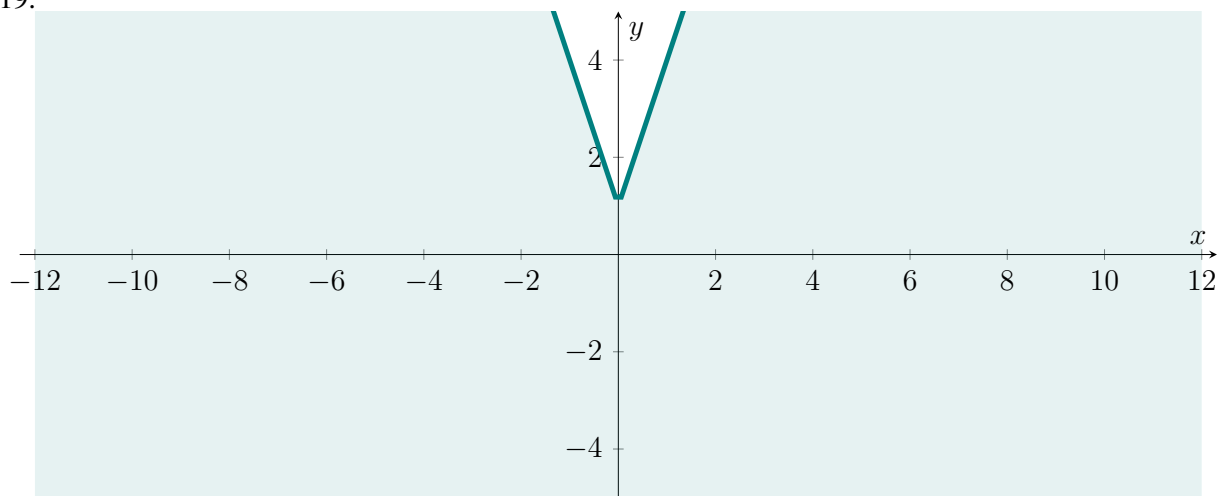
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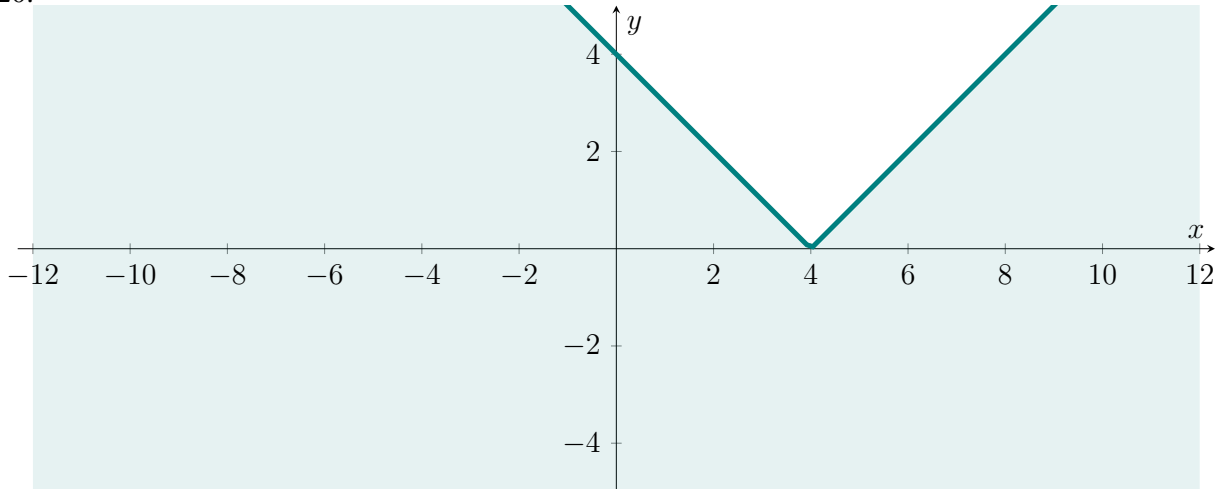
18.



19.



20.



27.  $y < -x - 2$

28.  $5x + 3y \leq 9$

29.  $2y \geq |2x + 6|$

## Chapter 2 Test: All Even Problems

2. Domain =  $\{3, 4, 5, 6, 7\}$ . Range =  $\{2, 3, 4, 5, 6\}$ .

4. Yes.

6.  $2(1) - 5 + |-3(2) - 1| = -3 + 7 = 4$

8.  $|-3(2) - 1| - (2(0) - 5) = |-7| - (-5) = 12$

10.  $2 * |-3(-4) - 1| = 2 * 11 = 22$

12.

$$y - 1/2 = \frac{1}{2}(x + 1/2)$$

$$y = \frac{1}{2}x + \frac{3}{4}$$

14.

$$y - 7 = \frac{2}{5}(x - 6)$$

$$5y - 35 = 2x - 12$$

$$-2x + 5y = 23$$

16.

$$y - 6 = -0.5x$$

$$2y - 12 = -x$$

$$x + 2y = 12$$

18.

$$m = 16 / -1 = -16$$

$$y + 6 = 16(x + 1)$$

$$y + 6 = 16x + 16$$

$$y = 16x + 10$$

20.

$$m = -3 / -1 = 3$$

$$y - 5 = 3(x - 9)$$

$$y - 5 = 3x - 27$$

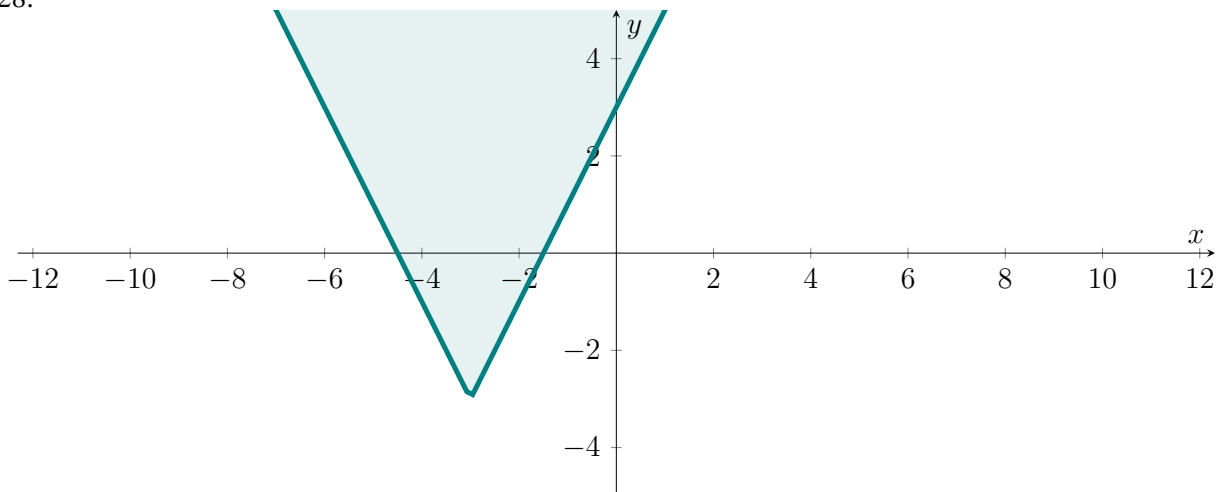
$$y = 3x - 22$$

22. Skip this question. Useless topic.

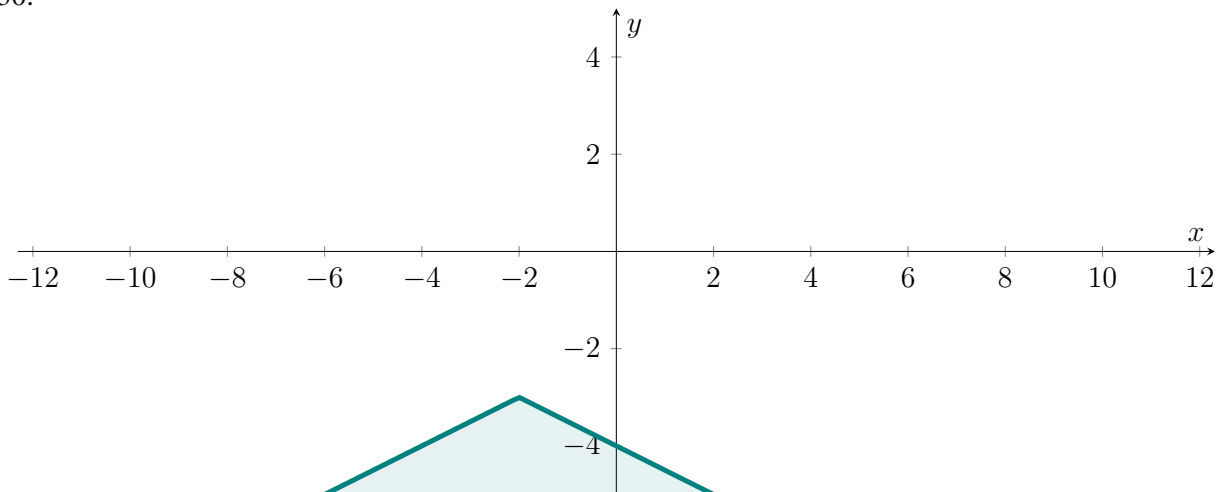
24.  $y = -6x + 9$ .  $6x + y = 9$

26.  $y = -x/2 + 4$ .  $x + 2y = 8$

28.

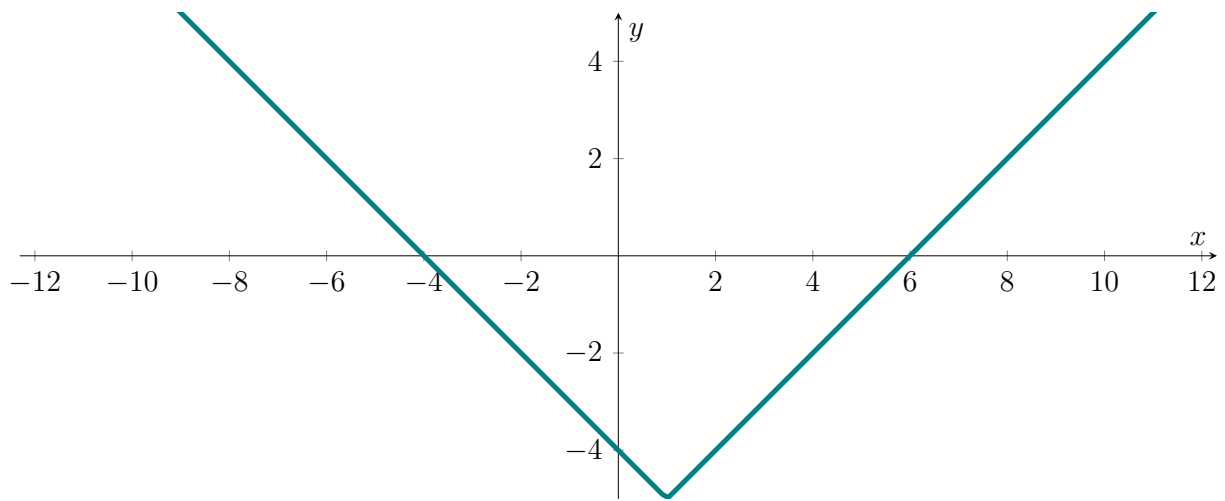


30.



32. If you plug in 0 for x and see what y is equal to, and then plug in 0 for y and see what x is equal to, you can use those numbers to retrieve the slope again.

34. Slide right by 1. Slide down by 5.



36. Slide left by 1. Vertically stretch by a factor of 2.

