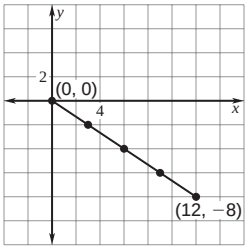
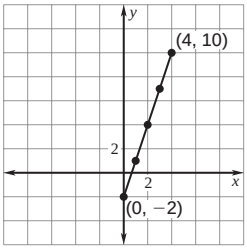
Practice B

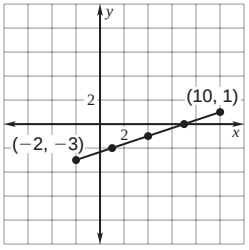
1.



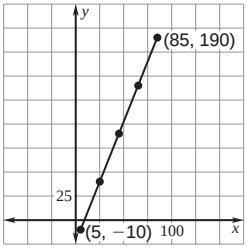
2.



3.



4.



5. $y = \frac{3}{2}x + 1; 0 \le x \le 8$

6. $y = -x + 10; 7 \le x \le 11$

7. $y = \frac{1}{5}x + 2; -20 \le x \le 0$

8. $y = 2x - 13; 6 \le x \le 46$

9. $x = (19.5 \cos 62.6°)t$ or $x = 9.00t$;
$y = (19.5 \sin 62.6°)t$ or $y = 17.3t$

10. $x = (21.4 \cos 46.1°)t + 6$ or $x = 14.8t + 6$;
$y = (21.4 \sin 46.1°)t + 15$ or $y = 15.4t + 15$

11. $x = (7.35 \cos 54.7°)t + 1$ or $x = 4.25t + 1$;
$y = (7.35 \sin 54.7°)t + 7$ or $y = 6.00t + 7$

12. $x = (6.43 \cos 66.2°)t + 5$ or $x = 2.60t + 5$;
$y = (6.43 \sin 66.2°)t + 6$ or $y = 5.88t + 6$

13. $x = (140 \cos 22.5°)t$ or $x = 129t$;
$y = -16t^2 + (140 \cos 22.5°)t + 10$ or
$y = -16t^2 + 53.6t + 10$

14. about 456 ft **15.** about 3.53 seconds