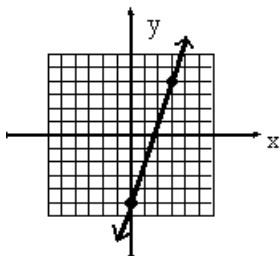UNIT 2 CALCULATOR REVIEW

Target 2.6: I can write linear equations when given a point and a slope.

1. What is the equation, in standard form, of the line that passes through (-5, -4) and has a slope of 3?

2. Find the slope of the line graphed below.

3. Write the equation of the line with slope = -1 and that passes through the point   (-4, -1).

4. Find the equation of the line with slope = 4 and y-intercept (0 , 5).

5. Find the equation of a line with slope $-\dfrac{5}{2}$ that passes through the point (-2, 6).

6. Find the equation for the line that passes through the point (-2, 3) and is parallel to y = -4x + 4.

7. Find the equation of the line that passes through (-8, -2) and has an undefined slope.

8. Write the equation for the line that passes through the point (1, 2) and is perpendicular to the line 2x + 4y = 5.

Target 2.7: I can write linear equations when given two points.
9. Calculate the slope of the line that passes through the points (4, 7) and (-6, -3).

10. Calculate the slope of the line that passes through the points (-3, -3) and (-6, 3).

11. Find the equation of a line that passes through the points (10, 10) and (-5, -20).

Target 2.9: I can find the distance between two points in the coordinate plane.

12. Find the distance between the points (-3, 0) and (6, 5).
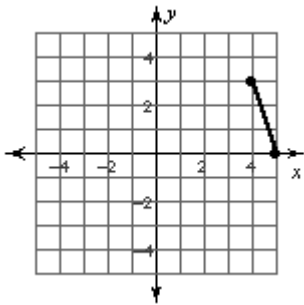
13. Find the distance of the segment shown.
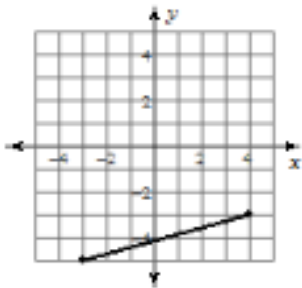
14. Find the distance between the pair of points. (-11, 8) (6, 7)

15. Find the midpoint of the segment joining the two points. (-12, 7), (9, 18)

16. Find the midpoint of the segment joining the two points. (-8, 2), (8, 5)

17. Find the midpoint of the line
segment.

Target 2.11: I can find the missing endpoint when given one endpoint and the midpoint of a segment.

18. Given the midpoint and one endpoint of a line segment, find the other endpoint.
Endpoint: (-2, -12), Midpoint: (9, -8)

19. Given the midpoint and one endpoint of a line segment, find the other endpoint.
Endpoint: (0, 9), Midpoint: (3, -4)

20. Given the midpoint and one endpoint of a line segment, find the other endpoint. Endpoint: (14, 7), Midpoint: (-20, -14)