Geometry Name_____ ID: 1

Summer Packet

Date_____ Period____

Solve.

1) $-7n + 1 = -125$

2) $4k + 4 = 76$

3) $-14 = \frac{m}{5} - 10$

4) $-44 = -4 - 2n$

5) $-(x + 5) - 2 = -2x - 12$

6) $2(1 + 6a) = 5a - 19$

7) $-8(1 + 6k) = 4k - 8$

8) $7b + 40 = 4(-b - 1)$

9) $\frac{x - 7}{2} = \frac{2}{9}$

10) $\frac{7}{4} = \frac{r + 10}{6}$

11) $\frac{7}{8} = \frac{n+10}{6}$

12) $\frac{3}{4} = \frac{5}{n-1}$

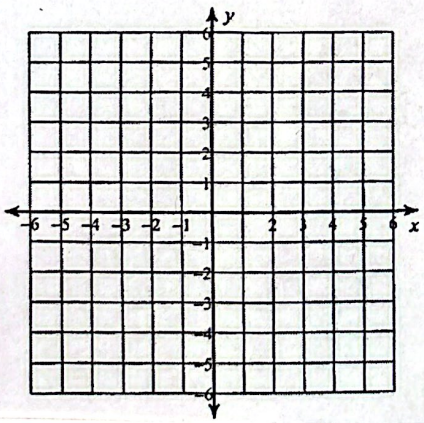
Find the slope of the line through each pair of points.

13) $(-1, 14), (-10, -16)$

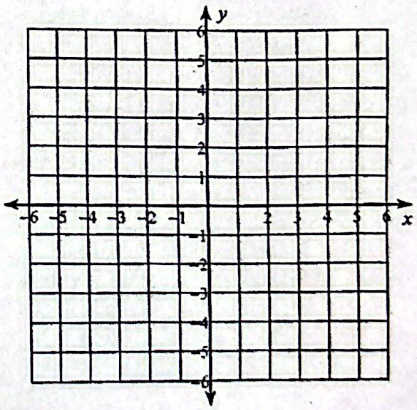
14) $(6, 4), (-20, 9)$

Sketch the graph of each line.

15) $y = \frac{2}{5}x + 2$



16) $y = 8x + 5$



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Solve each equation by taking square roots.

17) $m^2 = 100$

18) $b^2 + 7 = 107$

19) $16x^2 = 64$