

Homework Answers #1

1. x -intercept: $(\frac{11}{4}, 0)$ y -intercept: $(0, -\frac{11}{5})$
2. Point-slope form: $y = -\frac{8}{3}(x+3)$ or $y+8 = -\frac{8}{3}x$,
Slope-intercept form: $y = -\frac{8}{3}x - 8$
3. $m = \frac{1}{27} \approx 0.0370$
4. $y = \frac{5}{2}x - 4$
5. a. -20 b. -12 c. -4 d. 4 e. 12
6. a. 2 b. Undefined c. $\sqrt{r^2 - 2} - 2$ d. $s - 4\sqrt{s} + 2$
7. Interval Notation: $D = (-\infty, \infty)$ and $R = [-5, \infty)$
Set Notation : $D = \{x : -\infty < x < \infty\}$ and $R = \{y : -5 \leq y < \infty\}$
8. Interval Notation: $D = [-9, -4) \cup (-4, 5) \cup (5, 9]$ and $R = [-6, -6] \cup [5, 5] \cup [8, 8]$
Set Notation : $D = \{x : -9 \leq x < -4, -4 < x < 5, 5 < x \leq 9\}$ and $R = \{y : y = -6, 5, 8\}$
- 9.

