

Solving with a Calculator

Date _____ Period _____

For each equation below:**a) Solve by finding the zeros (x-intercepts)****b) find where $f(x)=-5$ and $f(x)=20$** **c) find the y-intercept****d) find $f(3)$ and $f(-6)$.**

1) $6x^2 - 3x - 9 = 0$

2) $-4n^2 + 12n + 27 = 0$

3) $2m^2 + m - 136 = 0$

4) $r^2 - 2 = 0$

5) $5x^2 - 125 = 0$

6) $-4k^2 + 4k + 143 = 0$

7) $-7n^2 + 3n + 7 = 0$

8) $8p^2 + 7p - 10 = 0$

Solve each equation by finding the intersections on your calculator and list the viewing window that you used.

9) $-5v^2 + 18 = 12$

10) $b^2 + 5b - 99 = 5$

11) $-2k^2 + k + 5 = 6k - 6$

12) $11x^2 + 5x - 1 = 12x$

13) $-15x^2 - 11x + 15 = -11x^2 - 6x$

14) $-19n^2 + 8 = -9n - 8n^2$

15) $-5a^2 + 12a + 10 = 5 + a$

16) $-3x^2 - 23x + 105 = -11x + 9$

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a) Solve by finding the zeros (x-intercepts)

b) find where $f(x)=-5$ and $f(x)=20$

c) find the y-intercept

d) find $f(3)$ and $f(-6)$.

1) $6x^2 - 3x - 9 = 0$

 $\{1.5, -1\}$

2) $-4n^2 + 12n + 27 = 0$

 $\{-1.5, 4.5\}$

3) $2m^2 + m - 136 = 0$

 $\{8, -8.5\}$

4) $r^2 - 2 = 0$

 $\{1.414, -1.414\}$

5) $5x^2 - 125 = 0$

 $\{5, -5\}$

6) $-4k^2 + 4k + 143 = 0$

 $\{-5.5, 6.5\}$

7) $-7n^2 + 3n + 7 = 0$

 $\{-0.808, 1.237\}$

8) $8p^2 + 7p - 10 = 0$

 $\{0.763, -1.638\}$

Solve each equation by finding the intersections on your calculator and list the viewing window that you used.

9) $-5v^2 + 18 = 12$

 $\{-1.095, 1.095\}$

10) $b^2 + 5b - 99 = 5$

 $\{8, -13\}$

11) $-2k^2 + k + 5 = 6k - 6$

 $\{-3.908, 1.408\}$

12) $11x^2 + 5x - 1 = 12x$

 $\{0.757, -0.12\}$

13) $-15x^2 - 11x + 15 = -11x^2 - 6x$

 $\{-2.66, 1.41\}$

14) $-19n^2 + 8 = -9n - 8n^2$

 $\{-0.537, 1.355\}$

15) $-5a^2 + 12a + 10 = 5 + a$

 $\{-0.387, 2.587\}$

16) $-3x^2 - 23x + 105 = -11x + 9$

 $\{-8, 4\}$