

October 11, 2017

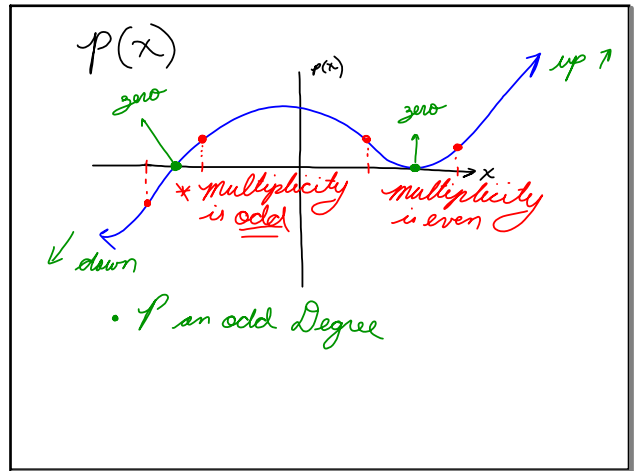
1.3 #27) $m = \frac{3}{1}$; y-int: -2
 $(0, -2)$

$$y = 3x - 2$$

$$-3x + y = -2$$

$$3x - y = 2$$

Oct 11-10:51 AM



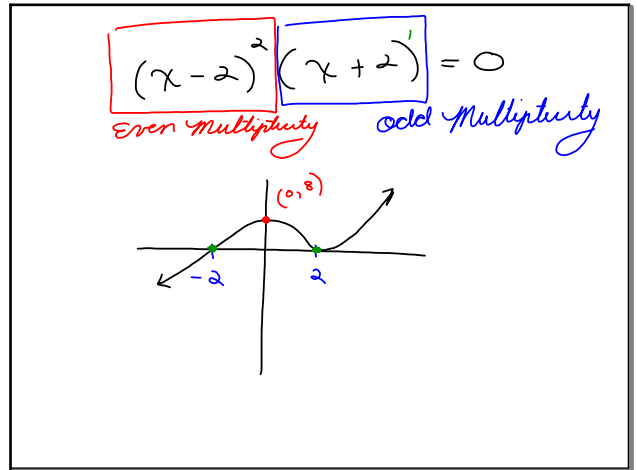
Oct 11-11:07 AM

$p(x) = x^3 - 2x^2 - 4x + 8$

a) Find the zeros of P
 b) Graph P

a) $x^3 - 2x^2 - 4x + 8 = 0$
 factor by grouping
 $x^2(x-2) - 4(x-2) = 0$
 $(x-2)(x^2-4) = 0$
 $(x-2)(x+2)(x-2) = 0$
 $(x-2)^2(x+2) = 0$
 ① $(x-2)^2 = \pm\sqrt{0}$
 ② $x-2 = 0$
 $x = 2$
 ③ $x+2 = 0$
 $x = -2$ } zeros

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$$p(x) = x^3 + 3x^2 - 4x - 12$$

$$x^2(x+3) - 4(x+3)$$

$$(x+3)(x^2-4)$$

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