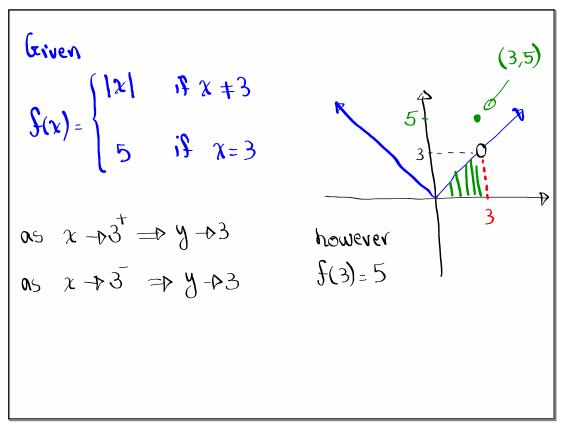


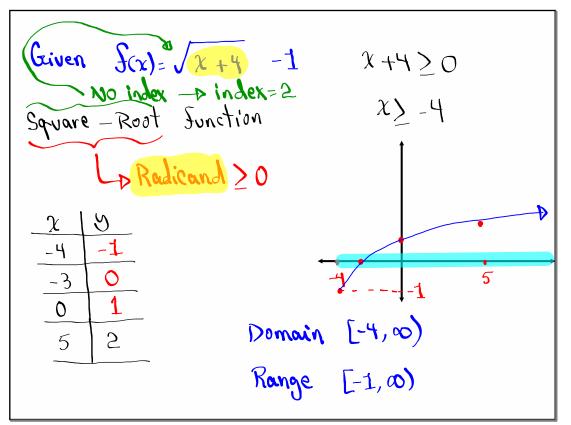
Feb 19-8:47 AM

Given $f(x) = \chi^2 + 4\chi + 4$ $Domain (-\infty,\infty)$ Function, Polynomial Function Y-Int $\rightarrow X=0$ Quadratic form $f(0)=0^2+4(0)+4=4$ f(0)=0(0,4)2 2 (0,4) (-4,4) -Axis of Symmetry (-2,0) vertex

Given
$$f(x) = \frac{x^3 - 9x}{x + 3}$$
 Rational Function
 $f(x) = \frac{x(x^2 - 9)}{x + 3}$ Domain where deno. ± 0 .
 $f(x) = \frac{x(x+3)(x-3)}{x + 3}$ $x + 3 \pm 0$
 $f(x) = \frac{x(x+3)(x-3)}{x + 3}$ $f(-\infty, -3)U(-3, \infty)$
 $f(x) = x(x - 3) = x^2 - 3x$
 $Y - Int. \rightarrow f(x) = 0 \quad (0, -3) = 0 \quad (0, 0)$
 $x - Int \rightarrow f(x) = 0 \quad (0, -3) = 0 \quad (0, 0)$
 $x - Int \rightarrow f(x) = 0 \quad (0, -3) = 0 \quad (0, 0)$
 $x - Int \rightarrow f(x) = 0 \quad (0, -3) = 0 \quad (0, 0)$
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Feb 6-8:57 AM





Feb 6-9:15 AM

Class QZ 1
Griven
$$f(x) = x^2 + 2x - 8$$

1) Y-Int $f(0) = 0^2 + 2(0) - 8 = -8 \rightarrow (0, -8)$
2) X-Ints $f(x) = 0 \rightarrow x^2 + 2x - 8 = 0 \rightarrow (x + 4)(x - 2) = 0$
 $p(-4, 0), (2, 0)$
3) (traph.
(4, 0) (2, 0) (2, 0) (2, 0) (2, 0) (3, -8) (4, -9) (4, -9) (5, -8) (