25 30

$$s(t) = -16t^2 + 25t + 30 = 0$$

$$t = \frac{-25 \pm \sqrt{625 - 4(-16)(30)}}{-32}$$

Thursday, September 13, 2018 9:34 AM

$v_0 = 200$ m/s

$s = -4.9t^2 + 200t$

$v = -9.8t + 200 = 0$

$t = \frac{200}{9.8} = 20.4$ s

$s(20.4) = -4.9(20.4)^2 + 200(20.4)$

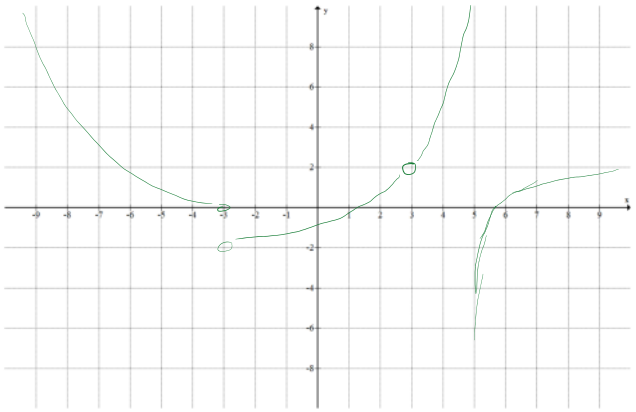
Sketching graphs with given limits - practice

Sketching graphs with given limits (Ch. 2) **AP Calculus**

Name:

Sketch a graph that meets these limit conditions:

$\lim_{x\to 3} f(x) = 2$ $\lim_{x\to -3^-} f(x) = 0$ $\lim_{x\to 3^+} f(x) = -2$ $\lim_{x\to 5^+} f(x) = -\infty$



$\lim_{x\to 6} f(x) = -3$ $\lim_{x\to 3^-} f(x) = 3$ $\lim_{x\to 3^+} f(x) = -3$ $\lim_{x\to -2^+} f(x) = \infty$

$\lim_{x\to -2^-} f(x) = \infty$