

PRECAL HONORS

Name _____

11.3 – LIMITS (ANALYTICALLY)

Evaluate each limit.

1. $\lim_{x \rightarrow 2} (-x^3 + 3x^2)$

2. $\lim_{x \rightarrow 5} \left(-\frac{x-4}{x^2 - 11x + 28} \right)$

3. $\lim_{x \rightarrow -3} (-\sqrt{-x+5})$

4. $\lim_{x \rightarrow 0} \left(\frac{x+1}{x^2 - 5x + 6} \right)$

5. $\lim_{x \rightarrow 2} \left(-\frac{x-2}{x^2 - x - 2} \right)$

6. $\lim_{x \rightarrow -4} \left(-\frac{x^2 + 6x + 8}{x+4} \right)$

7. $\lim_{x \rightarrow 0} \left(\frac{\frac{1}{-4+x} + \frac{1}{4}}{x} \right)$

8. $\lim_{x \rightarrow 0} \left(\frac{x}{\frac{1}{-2+x} + \frac{1}{2}} \right)$

9. $\lim_{x \rightarrow 4} \left(\frac{x-4}{\sqrt{x}-2} \right)$

10. $\lim_{x \rightarrow 2} \left(\frac{x-2}{\sqrt{x+2}-2} \right)$