Name _____ **Section** _____ **Date** _____

Computational Test # 1 for Math 151: Version Osprey

All answers should be one of the following:

A specific real number (such as 2 or $\sqrt{3}$, but arithmetic operations may be left unsimplified: thus $5 + 7^2$ is an allowable answer) **or**
$+\infty$ **or**
$-\infty$ **or**
if none of the previous answers applies, write "Does not exist."

1. $\lim_{x \to -1} x^2 - 2x + 1$

Answer to 1 _____

2. $\lim_{x \to -2^-} \dfrac{|x+2|}{x+2}$

Answer to 2 _____

3. $\lim_{x \to \infty} \dfrac{3x^2 - 7}{\sqrt{x^2 + 2}}$

Answer to 3 _____

4. $\lim_{x \to 2} \dfrac{2 - x}{\sqrt{2} - \sqrt{x}}$

Answer to 4 _____

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5. $\lim_{x \to 5} \dfrac{x^2 - 2x - 15}{x^2 + x - 30}$

Answer to 5 _____

6. $\lim_{x \to -5^-} \dfrac{x}{x + 5}$

Answer to 6 _____

7. $\lim_{x \to \pi} \dfrac{\pi - x}{\frac{1}{\pi} - \frac{1}{x}}$

Answer to 7 _____

8. $\lim_{x \to 4} \dfrac{x^2 + 1}{(x - 4)^3}$

Answer to 8 _____

The End