

Name : _____

Score : _____

Teacher : _____

Date : _____

Evaluation of Limits

Evaluate the given limits. Round to the nearest ten-thousandth.

1) $\lim_{x \rightarrow 2} x^3 - 6x^2 + 12x - 8$

2) $\lim_{x \rightarrow \frac{\pi}{2}} \sin(x^2 - 6x + 5)$

3) $\lim_{x \rightarrow 6} \frac{x + 2}{x^2 + 3x - 10}$

4) $\lim_{x \rightarrow -3} \frac{x^2 - 3x}{x - 3}$

5) $\lim_{x \rightarrow \pi} \cos(x^2 - 2x + 1)$

6) $\lim_{x \rightarrow -3} e^{x + 3}$

7) $\lim_{x \rightarrow \frac{3\pi}{4}} \sin(x - 2)$

8) $\lim_{x \rightarrow 1} x - 5$

9) $\lim_{x \rightarrow 2} \frac{x}{x^3 + x^2 - x - 1}$

10) $\lim_{x \rightarrow 0} e^{x + 4}$



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Evaluation of Limits

Evaluate the given limits. Round to the nearest ten-thousandth.

1) $\lim_{x \rightarrow 2} x^3 - 6x^2 + 12x - 8$

0

2) $\lim_{x \rightarrow \frac{\pi}{2}} \sin(x^2 - 6x + 5)$

-0.9262

3) $\lim_{x \rightarrow 6} \frac{x + 2}{x^2 + 3x - 10}$

0.1818

4) $\lim_{x \rightarrow -3} \frac{x^2 - 3x}{x - 3}$

-3

5) $\lim_{x \rightarrow \pi} \cos(x^2 - 2x + 1)$

-0.1256

6) $\lim_{x \rightarrow -3} e^{x + 3}$

1

7) $\lim_{x \rightarrow \frac{3\pi}{4}} \sin(x - 2)$

0.3487

8) $\lim_{x \rightarrow 1} x - 5$

-4

9) $\lim_{x \rightarrow 2} \frac{x}{x^3 + x^2 - x - 1}$

0.2222

10) $\lim_{x \rightarrow 0} e^{x + 4}$

54.5982

