

17)  $S(x) = -x^3 - 9x^2 + 165x + 1300$ ,  $5 < x < 20$  is an approximation to the number of salmon swimming upstream to spawn, where  $x$  represents the water temperature in degrees Celsius. Find the temperature that produces the maximum number of salmon.

A) 20°C

B) 19°C

C) 6°C

D) 5°C

$$S(x) = -x^3 - 9x^2 + 165x + 1300 = -3(x^2 + 6x - 55) = -3(x+11)(x-5) = 0$$

$$x =$$

Use the properties of limits to help decide whether the limit exists. If the limit exists, find its value.

$$18) \lim_{x \rightarrow 3} \frac{x^2 + 10x + 21}{x + 3}$$

A) Does not exist

B) 60

C) 4

D) 10

Give an appropriate answer.

$$19) \text{ Let } \lim_{x \rightarrow -8} f(x) = -1 \text{ and } \lim_{x \rightarrow -8} g(x) = -3. \text{ Find } \lim_{x \rightarrow -8} [f(x) - g(x)].$$

A) -4

B) 2

C) -1

D) -8

# Applied Calculus With Technology

**Lei Shi**



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