Find the limit

$$\lim_{x \to 3} \frac{x^2 - 2x - 3}{x - 3}$$

- 1. 4 4. 1
- 2. 2 5. does not exist
- 3. 36. None of the above

Find the limit

$$\lim_{x \to 3} \frac{x^2 - 2x - 3}{x - 3}$$

(if the limit exists)

- 1. 4 4. 1
- 2. 2 5. does not exist
- 3. 3 6. None of the above

1. The limit is 4

Find

$$\lim_{x \to -2} \frac{x+2}{x^3+8}$$

- 1. -3/12
- 2. 3/12
- 3. 1/12

- 4. 5/12
- 5. does not exist
- 6. None of the above

Find

$$\lim_{x \to -2} \frac{x+2}{x^3+8}$$

(if the limit exists)

- 1. -3/12
- 2. 3/12
- 3. 1/12

- 4. 5/12
- 5. does not exist
- 6. None of the above

3. The limit is 1/12

Find

$$\lim_{x \to 9} \frac{9-x}{3-\sqrt{x}}$$

- 1. -3 4. 6
- 2. 5 5. does not exist
- 3. 3 6. None of the above

Find

$$\lim_{x \to 9} \frac{9-x}{3-\sqrt{x}}$$

(if the limit exists)

- 1. -3 4. 6
- 2. 5 5. does not exist
- 3. 3 6. None of the above

4. The limit is 6

Find

3. 3

$$\lim_{x \to 0} \left(\frac{1}{x\sqrt{x+1}} - \frac{1}{x} \right)$$

- 1. -3 4
- 4. 1
- 2. -1/2 5. does not exist
 - 6. None of the above

Find

$$\lim_{x \to 0} \left(\frac{1}{x\sqrt{x+1}} - \frac{1}{x} \right)$$

(if the limit exists)

- 1. -3 4. 1
- 2. -1/2 5. does not exist
- 3. 3 6. None of the above

2. The limit is -1/2

An object is dropped from a helicopter at 6000ft. The height above the ground after t seconds is

$$h(t) = 6000 - 16t^2$$

Find the average velocity from t = 1 to t = 3.

- 1. -32 4. -128
- 2. -16 5. -96
- 3. -646. None of the above

An object is dropped from a helicopter at 6000ft. The height above the ground after t seconds is

 $h(t) = 6000 - 16t^2$

Find the average velocity from t = 1 to t = 3.

- 1. -32 4. -128
- 2. -16 5. -96
- 3. -64 6. None of the above

3. The average velocity is -64