

1. Let  $f(x) = e^{e^x}$ . Find  $f'(-2)$ .

- (A)  $e$     (B)  $0$     (C)  $0.155$     (D) Not shown

2. Let  $h(x) = x^4(2x - 8)^3$ . Find  $h'(1)$ .

- (A)  $1$     (B)  $648$     (C)  $-648$     (D) Not shown

3. Let  $g(x) = \frac{1}{x^5 - 2x^3 + 1}$ . Find  $g'(0)$ .

- (A) Does not exist    (B)  $0$     (C)  $1$     (D) Not shown

4. Let  $f(x) = \sqrt[5]{e^x + 1 + x^2}$ . At  $x = 0$ , is  $f(x)$  increasing, decreasing, or neither?

- (A) Increasing    (B) Decreasing    (C) Neither

5. Which of the following functions is decreasing at  $x = -1$ ?

- (A)  $y = x^3$     (B)  $y = x^7 + x^2$     (C)  $y = e^x$     (D)  $y = x^2$