

Circle the correct partial fraction decomposition.

(1) Partialled 1 into three

$$f(x) = \frac{1}{x^2 - 1}$$

(2) reflected over the x-axis

$$f(x) = \frac{-1}{x^2 - 1}$$

(3) vertically stretched by 1

$$f(x) = 2(x^2)$$

(4) vertically stretched by 2

$$f(x) = 2(x^2)$$

(5) horizontal stretch to the left

$$f(x) = 4(x^2 - 1)$$

(6) reflected over the y-axis

$$f(x) = 4(x^2 - 1)$$

(7) vertically compressed by  $\frac{1}{2}$

$$f(x) = \frac{1}{2}(x^2)$$

(8) vertically compressed by  $\frac{1}{2}$

$$f(x) = \frac{1}{2}(x^2)$$

Circle the correct partial fraction decomposition for the function below.

(1) Partialled three into one and two terms

$$f(x) = 4 \log_2(x^2 - 2) = \frac{1}{2}$$

(2) reflected over the x-axis

$$f(x) = -4 \log_2(x^2)$$

(3) vertically stretched by 2

$$f(x) = 4 \log_2(x^2)$$

(4) vertically stretched by 2

$$f(x) = 4 \log_2(2^{x^2})$$

(5) horizontally compressed by  $\frac{1}{2}$

$$f(x) = 4 \log_2\left(\frac{1}{2}x^2\right)$$

(6) Partialled three into one and two terms

$$f(x) = 4 \log_2(x^2 + 2) = 5$$

(7) vertically stretched by 2

$$f(x) = 4 \log_2(x^2)$$

(8) vertically compressed by  $\frac{1}{2}$

$$f(x) = \frac{1}{2} 4 \log_2(x^2)$$

(9) horizontally compressed by  $\frac{1}{2}$

$$f(x) = 4 \log_2\left(\frac{1}{2}x^2\right)$$

(10) Partialled three into one and two terms

$$f(x) = 4 \log_2(x^2 - 2) = \frac{1}{2}$$