

8. Given  $d = \frac{1}{4-x}$  and  $h = -x$ , which of the following is correct:

$$d+h = \frac{x^2-4}{x-4} \cdot \frac{x-1}{x+1}$$

$$d \times h = -\frac{x}{x-4}$$

$$\frac{d+h}{d-h} = \frac{(x+4)(x^2-4)(x+1)}{(x-4)(x^2+4)(x+1)}$$

$$d-h = -\frac{x^2-4}{x-4} \cdot \frac{x+1}{x+1}$$

$$d \times h = -\frac{x}{x+4}$$

$$d-h = -\frac{x^2+4}{x+4} \cdot \frac{x+1}{x+1}$$

$$d+h = \frac{x^2+4}{x+4} \cdot \frac{x-1}{x-1}$$

$$\frac{d+h}{d-h} = 1$$

$$\frac{d+h}{d-h} = -\frac{x^2-4}{x^2-4} \cdot \frac{x+1}{x-1}$$

$$d-h = \frac{x^2-4}{x-4} \cdot \frac{x-1}{x+1}$$

$$d+h = -\frac{x^2-4}{x-4} \cdot \frac{x+1}{x+1}$$

$$d \times h = \frac{x}{x-4}$$

$$d+h = -\frac{x^2+4}{x+4} \cdot \frac{x+1}{x+1}$$

$$\frac{d+h}{d-h} = \frac{(x-4)(x^2+4)(x-1)}{(x+4)(x^2-4)(x-1)}$$

$$d-h = \frac{x^2+4}{x+4} \cdot \frac{x-1}{x-1}$$

$$d \times h = \frac{x}{x+4}$$

**Solution**