Hitt 1

Which of the following expressions does **not** describe a wave?

$$A(x,t) = (x-t)^2 \qquad B(x,t) = x^2 + 4xt + 4t^2 \qquad C(x,t) = \frac{\sin(2x-4t)}{(x-2t)}$$

$$D(x,t) = (x-2t)e^{-(x^2-2xt+t^2)} \qquad E(x,t) = \sqrt{\frac{\cos(2x-t)}{(6x-3t)}}$$

$$A(x,t) = (x-t)^2 \text{ Wave} \qquad B(x,t) = (x+2t)^2 \text{ Wave} \qquad C(x,t) = \frac{\sin(2(x-2t))}{(x-2t)} \text{ Wave}$$

$$D(x,t) = (x-2t)e^{-(x-t)^2} \text{ Not a wave} \qquad E(x,t) = \sqrt{\frac{\cos(2(x-0.5t))}{6(x-0.5t)}} \text{ Wave}$$

Hitt 2

Which of the following expressions does **not** describe a wave?

$$A(x,t) = (x-3t)e^{-(x^2-2xt+t^2)} \qquad B(x,t) = (x-t)^{1/2} \qquad C(x,t) = \frac{\cos(3x-t)}{(9x-3t)}$$

$$D(x,t) = x^2 + 4xt + 4t^2 \qquad E(x,t) = \sqrt{\frac{\sin(x-2t)}{(2x-4t)}}$$

$$A(x,t) = (x-3t)e^{-(x-t)^2} \text{ Not a Wave} \qquad B(x,t) = \sqrt{(x-t)} \text{ Wave} \qquad C(x,t) = \frac{\cos(3(x-\frac{1}{3}t))}{9(x-\frac{1}{3}t)} \text{ Wave}$$

$$D(x,t) = (x+2t)^2 \text{ wave} \qquad E(x,t) = \sqrt{\frac{\sin(x-2t)}{2(x-2t)}} \text{ Wave}$$