Test 2

1.A

$$\vec{P} = [x(t) + x_0]\,\hat{\imath} + [y(t) + y_0],\hat{\jmath}$$

$$\vec{P} = [\int x'(t)dt + x_0]\,\hat{\imath} + [\int y'(t)dt + y_0]\,\hat{\jmath}$$

$$\vec{P} = [\frac{1}{(t+1)^2} + 1]\,\hat{\imath} + [\tanh(t)]\,\hat{\jmath}$$

1.C

The point never stops moving, as the velocity in the x direction, given by $x'(t)$ can never equal 0, as shown below

$$0 = -\frac{2}{(t+1)^2}$$

$$0 * (t+1)^2 = -(t+1)^2 * \frac{2}{(t+1)^2}$$

$$0 = -2$$

1.D

oof

1.D