

By 435 #1-3, 5-6, 9, 13-16

1a) $t = x - 1$

b) $t = \frac{x+1}{3}$

c) $t = \pm \sqrt{x}$

d) $t = x + 1$

2a) $y = (x-1)^2$

b) $y = \frac{2}{3}x + \frac{5}{3}$

c) $y = \pm \sqrt{x} + 3$

d) $y = \sqrt{4 - (x+1)^2}$

GRAPH THEM

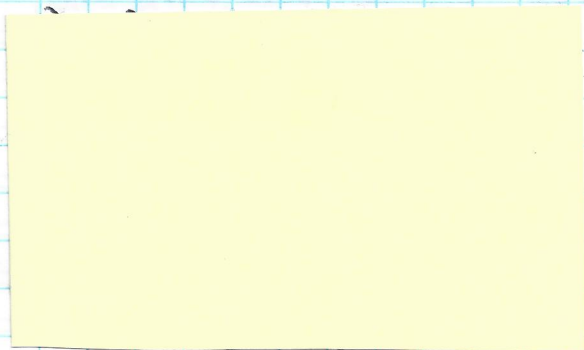


3a) $y = \frac{x+7}{2}$

b) $y = \pm \sqrt{x} + 1$

c) $y = \frac{2x-4}{3}$

d) $y = 2(x+2)^2$

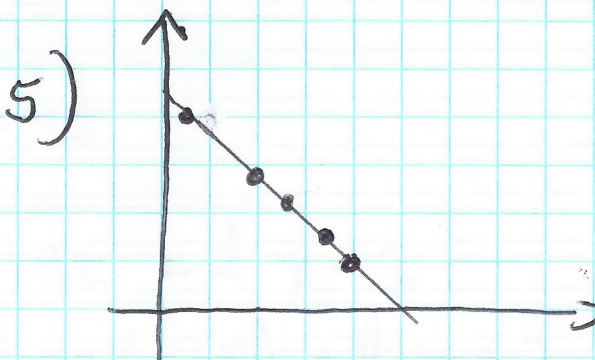


6) $x = -\frac{2}{3}t + 4$

$y = \frac{3}{5}t + 1$

$y = -\frac{9}{10}x + \frac{23}{5}$

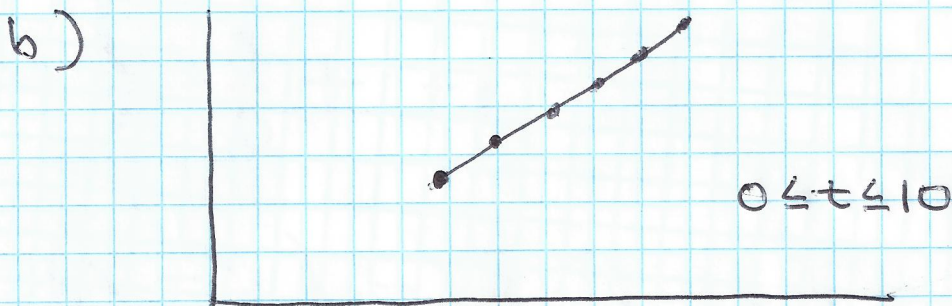
$\frac{\frac{3}{5}}{-\frac{2}{3}}$



t	x	y
0	4	1
1	3.5	1.5
5	0.5	4
3	2	2.8
2	2.6	2.2

B 435

9a) $x = 20 + 2t$ $y = 5 + t$



POINTS ARE LINEAR

c) $y = \frac{1}{2}x - 5$ $x = 20 + 2(y - 5)$ $x - 20 = 2(y - 5)$
 $\frac{1}{2}x - 10 = y - 5$ $\frac{1}{2}x - 5 = y$

d) Slope in 9c is RATIO of

$$\frac{Y \text{ slope}}{X \text{ slope}} \quad \text{IN PARAMETRIC EQUATIONS}$$

13) $x = t^2$ $y = t$

14) a) TANKER A $x = 18t$ and $y = 1$

TANKER B $x = 22(t - 5)$ and $y = 2$

b) VARIES

c) 27.5 AFTER LEAVING 495 M. EAST OF CORPUS CRISTI

$$5) \quad x = -\frac{2}{3}t + 4$$

$$y = \frac{3}{5}t + 1$$

$$-\frac{3}{2}(x-4) = \frac{5}{3}(y-1)$$

$$-9(x-4) = 10(y-1)$$

$$-9x + 36 = 10y - 10$$

$$-9x + 46 = 10y$$

$$y = -\frac{9}{10}x + 4.6$$