







Projectile  $10\text{ms}^{-1}$  at  $35^\circ$  above the horizontal

$$a = -10$$

$$v = 22$$

$$v = 7t - 5$$

$$x = 8.2t$$

$$\int a \, dt$$

$$s + c$$

$$6.8\text{ms}^{-2}$$

$$3i + 5j$$

$$\text{Projectile } u = 2i + 5j$$

$$2\sqrt{13}$$

$$113i + 65j$$

$$v = 2t^2i + (6t - t^2)j$$

$$a = 10 - 6t, t = 1, x = 0 \& v = -5$$

$$7i + j$$

$$v = 10t + \frac{2}{3}t^2 - \frac{1}{3}t^3$$

$$u = 10, a = 6, t = 2$$

$$s = 120$$

$$s = 20, u = 4, t = 10$$

$$v = 4t + 3$$

$$x = 3 - 5t^2 = x$$

$$v = 3t^2 - 10t$$

$$v = 2t - 4$$

$$\vec{OA} = 3i + 4j, \vec{OB} = 6i - 7j$$