$$|A| = |A| + |A|$$

b)
$$WD_f = 15 \times 9.81 \times 1.5 - \frac{1}{2} (12)(1.4)^2 - 12 \times 9.81 \times 1.5$$

 $-\frac{1}{2} (15)(1.4)^2$
= 17.685 Nm

$$M_5 \dot{N} = ma$$
 $M_5 \dot{M} = Ma$
 $M = Ma$
 $M = Msg$
 $= 0.4(9.81)$

~6.371s

$$V = u + at$$

$$0 = 90 \div 60 \div 60 \times 1000 - 3.924t$$

$$t = 6.371049949$$

= 3.924 ms - 2

3)
$$mrw^2 = (50 - 35 \le 30^\circ - 10)$$

 $w^2 = \frac{122.5}{50(1.2)}$

w=4.475349148rads-1

$$1.7 = rw$$

$$= 1.2 \times 4.475349148$$

$$= 5.370418978 \text{ ms}^{-1}$$

$$\approx 5.370418978 \text{ ms}^{-1}$$

$$V = u + at$$

$$5.37 = 0 + \underbrace{35 \cos 30^{\circ}}_{50} + \underbrace{\frac{50}{9.81}}_{9.81}$$

$$t = 0.9030472825$$

~0.9035