

M1 - Haf 2005

1. $V_A = 0.4\text{ms}^{-1}$, $V_B = 1.6\text{ms}^{-1}$
2.
 - a. Pwyntiau pwysig (0,18), (15,18), (45,10), (90,20)
 - b. $a = 0.2222\text{ms}^{-2}$
 - c. 1365m
3.
 - a. $a = 0.5\text{ms}^{-2}$
 - b. $T = 1860\text{N}$
4. $a = 3.25\text{ms}^{-2}$, $T = 65.25\text{N}$
5.
 - a. $u = 9.6\text{ms}^{-1}$
 - b. $e = 0.35$
 - c. $\text{Maint} = 9.45\text{Ns}$
 - d. $V = -1.4\text{ms}^{-1}$
 - e. $t = 0.714\text{ s}$
6.
 - a. $R = 115.1\text{N}$, $F = 46\text{N}$
 - b. $a = 0.57\text{ms}^{-2}$
7. $R_x = 20\text{N}$, $R_y = 99\text{N}$, $R = 101\text{N}$, $\text{ongl} = 78.6^\circ$
8.
 - a. $x = 3.7\text{cm}$, $y = 6.5\text{cm}$
 - b. 33.5°
 - c. 3.7cm