

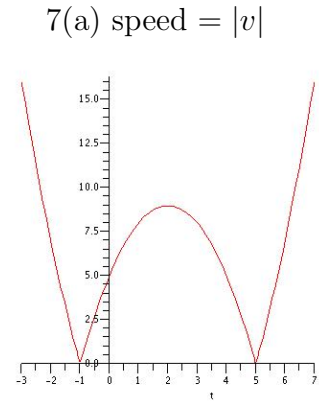
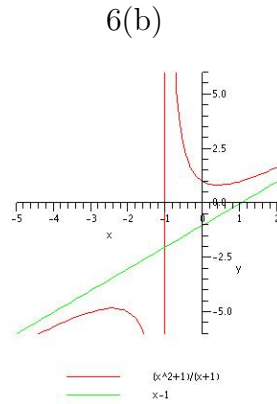
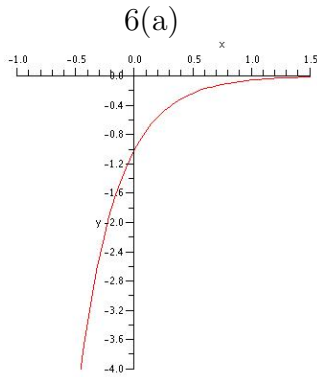
Diagnostic Test Answers:

1.	(a) T	(f) T	(k) F	(p) F
	(b) F	(g) F	(l) T	(q) F
	(c) F	(h) F	(m) F	(r) T
	(d) T	(i) T	(n) T	(s) T
	(e) F	(j) T	(o) T	(t) T

2. (a) $-5, 1$ (b) $-3, -1, 1$ (c) $-2 \leq x < 0$ or $x \geq 3$ (d) $1/3 \leq x \leq 7$ (e) 9

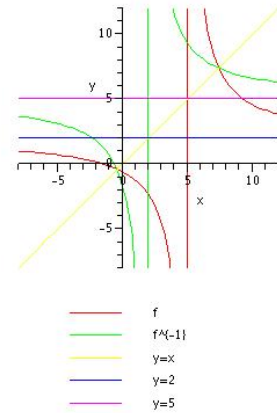
3. (a) $-\frac{\sqrt{21}}{5}$ (b) $\frac{17}{25}$ (c) $\sqrt{\frac{5 + \sqrt{21}}{10}}$ 4. $A = 4, B = 3, C = -4, D = -3$

5. (a) $(3, 14)$ (b) centre: $(-1, 2)$; radius: 3



7(b) max speed: 9

8. $f^{-1}(x) = \frac{3 + 5x}{x - 2}$



9. $\frac{20 \ln 3}{\ln 2}$