Solutions to Mathematical Survey

Q 2.1-2.3	
•	$x = \frac{6}{8}$
	<i>x</i> – 8
Q 2.4	
	x^{20}
Q 2.5	
	x^7
Q 2.6	
	False
Q 2.7	
	$\frac{16}{7}$
	7
Q 2.8	37
	$\frac{61}{64}$
Q 2.9	
Q 2.9	8
	$rac{8}{\Delta y}$
Q 2.10	
	$t=\sqrt{rac{v_0}{3}}$
Q 2.11	
4 2 12 1	$v = \sqrt{G(M_1 + M_2)}$
Q 3.1	
	$3 + 2y^3 - 9z^{-2}$
	x
Q 3.2	
	$x = \frac{-6z \pm \sqrt{36z^2 - 20y^2z}}{2y}$
	2y

$$\begin{array}{c} Q \ 3.3 \\ \\ Q \ 3.4 \\ \\ \hline Q \ 3.5 \\ \\ \frac{1}{2(z-1)} - \frac{1}{2(z+1)} = \frac{z+1}{2(z-1)(z+1)} - \frac{z-1}{2(z+1)(z-1)} = \frac{2}{2(z-1)(z+1)} = \frac{1}{(z-1)(z+1)} \\ \hline Q \ 4.2 \\ \\ |x| = \frac{3}{2} \\ \hline Q \ 5.1 \\ \hline \\ Q \ 5.2 - 5.3 \\ \hline \\ Q \ 5.2 - 5.3 \\ \hline \\ Q \ 6.1 \\ \hline \\ Q \ 6.1 \\ \hline \\ Q \ 6.2 \\ \hline \\ Q \ 6.3 \\ \hline \\ Q \ 6.3 \\ \hline \\ Q \ 6.3 \\ \hline \\ Q \ 6.4 \\ \hline \\ Q \ 6.6 \\ \hline \\ \hline \\ Q \ 6.6 \\ \hline \\ \hline \\ Q \ 6.6 \\ \hline \\ \hline \\ Q \ 7 \\ \hline \end{array}$$

Both are False