

Mathematics 122

Preliminary Quiz

Name: _____

The quantities p and q are related by

$$\begin{array}{c|ccc} p & 2 & 4 & 6 \\ \hline q & 11 & 8 & 5 \end{array}$$

(1) Solve for x in $3x + 5 = 2x + 7$

(2) Solve for r in $\frac{a}{r+1} = \frac{2}{r}$

(3) Solve for t in $5(2)^{2t} = 40$.

(4) If $f(x) = 3x^2 + x$ then find and simplify:

(a) $f(4)$

(b) $f(2+h) - f(2)$
