

Math R3 Review for final Practice **H**

1	Which is not rational? -3 , 4.56 , $\sqrt{12}$, $3.565656 \dots$, $3\frac{7}{8}$
2	If $x = -3$ and $y = -2$ evaluate $ x - y $
3	Find the first three decimals in the expansion of $\frac{5}{7}$
4	$3[4 - (3 - 7)] + 2 \cdot 3 + 10$
5	$\frac{(4x^7y^5)^2}{12x^4y^{12}} =$
6	$(4x + 3)^2 =$
7	$(x - 3)(2x^2 + 3x - 5) =$
8	Factor: $16x^2 - 25y^2$
9	Simplify: $\frac{18x^5y^4 - 12x^7y^3}{6x^5y^3}$
10	$\frac{12x^2}{x^2 - 5x + 6} \cdot \frac{3 - x}{6x^3} =$

Answers:

1	$\sqrt{12}$
2	1
3	.714
4	40
5	$\frac{4x^{10}}{3y^2}$
6	$16x^2 + 24x + 9$
7	$2x^3 - 3x^2 - 14x + 15$
8	$(4x + 5y)(4x - 5y)$
9	$3y - 2x^2$
10	$-\frac{2}{x(x-2)}$