

**Math 9 Assignment – Real Numbers, Integer Exponents, Polynomials (01, 02 and 03A)**

1	Circle the numbers that are <i>rational</i> but <i>not integer</i> : $3.578, \sqrt{25}, 7.030030003 \dots, -\frac{5}{3}, 3\frac{2}{5}, \frac{10}{2}$
2	$\frac{7}{55} + \frac{4}{33} =$
3	$10 - 5(4 - 6) + 3 \cdot 5 =$
4	Simplify; answer should not contain negative exponents: A) $(-3x^5y^{-2})^2(5x^7y^5)$ B) $\frac{-3x^{-5}}{x^{10}}$ C) $\left(\frac{-2x^5}{3y^{-4}}\right)^{-4}$ D) $(10x^7)(5x^3)^{-2}$
5	Multiply: $(2x - 3)(4x^2 - 5x - 2)$

6	Divide: $(3x^2 - 2x + 4) \div (x - 2)$
7	Divide: $\frac{15x^2y - 3xy}{-3xy}$