	Math R3 Review for final – practice E
1	$\dfrac{9-x^2}{x^2-8x+15}$
2	Rationalize the denominator: $\dfrac{5}{\sqrt{10}}$
3	Rationalize the denominator: $\dfrac{\sqrt{3}-1}{\sqrt{3}+2}$
4	Divide: $(4x^2 - 2x + 5) \div (x - 2)$
5	Subtract: $\dfrac{7}{15} - \dfrac{5}{9} =$
6	Simplify: $\dfrac{\frac{7}{xy}}{\frac{3}{x}+\frac{5}{y}}$
7	$\dfrac{2}{x+3} - \dfrac{3}{x-5} =$
8	$\sqrt{8x^5y} \cdot \sqrt{18x^3y^5}$
9	$\left(\dfrac{3x^4}{2y^5}\right)^{-2}$
10	Add: $\dfrac{3}{6x} + \dfrac{5}{3x^2} + \dfrac{4}{3x^2} =$

Answers:

1	$-\dfrac{3+x}{x-5}$
2	$\dfrac{\sqrt{10}}{2}$
3	$-5+3\sqrt{3}$
4	$4x+6\ R17$
5	$-\dfrac{4}{45}$
6	$\dfrac{7}{3y+5x}$
7	$\dfrac{-x-19}{(x+3)(x-5)}$
8	$12x^4y^3$
9	$\dfrac{4y^{10}}{9x^8}$
10	$\dfrac{3x+18}{6x^2}$