5.	C	C; $\frac{x^2+5x-14}{x^2-4x+4}=\frac{(x+7)\cancel{(x-2)}}{\cancel{(x-2)}(x-2)}=\frac{x+7}{x-2}$
9.	$\frac{x-3}{x+5}$	$\frac{x^2-11x+24}{x^2-3x-40}=\frac{\cancel{(x-8)}(x-3)}{\cancel{(x-8)}(x+5)}=\frac{x-3}{x+5}$
13.	$\frac{x-6}{x+6}$	$\frac{x^2-36}{x^2+12x+36}=\frac{\cancel{(x+6)}(x-6)}{\cancel{(x+6)}(x+6)}=\frac{x-6}{x+6}$
17.	$\frac{x^2-3}{x-3}$	$\frac{x^3-5x^2-3x+15}{x^2-8x+15}=\frac{x^2(x-5)-3(x-5)}{(x-5)(x-3)}$ $=\frac{(x^2-3)\cancel{(x-5)}}{\cancel{(x-5)}(x-3)}=\frac{x^2-3}{x-3}$
21.	$\frac{2}{x}$	$P=4(2x)=8x$ $A=(2x)(2x)=4x^2$ $\frac{P}{A}=\frac{8x}{4x^2}=\frac{\cancel{4}\cdot 2\cdot\cancel{x}}{\cancel{4}\cdot x\cdot\cancel{x}}=\frac{2}{x}$
25.	$\frac{8x^4}{y^2}$	$\frac{48x^5y^3}{y^4}\cdot\frac{x^2y}{6x^3y^2}=\frac{48x^7y^4}{6x^3y^6}=\frac{8\cdot\cancel{6}\cdot\cancel{x^3}\cdot x^4\cdot\cancel{y^4}}{\cancel{6}\cdot\cancel{x^3}\cdot\cancel{y^4}\cdot y^2}=\frac{8x^4}{y^2}$
29.	$\frac{x+4}{2(x-5)}$	$\frac{x+5}{4x-16}\cdot\frac{2x^2-32}{x^2-25}=\frac{x+5}{4(x-4)}\cdot\frac{2(x^2-16)}{(x+5)(x-5)}$ $=\frac{\cancel{2}\cancel{(x+5)}(x+4)\cancel{(x-4)}}{\cancel{2}(2)\cancel{(x-4)}\cancel{(x+5)}(x-5)}=\frac{x+4}{2(x-5)}$

33.	$\frac{4(x+5)(x+4)}{x}$	$\frac{4x^2+20x}{x^3+4x^2} \cdot (x^2+8x+16) = \frac{4x^2+20x}{x^3+4x^2} \cdot \frac{x^2+8x+16}{1}$ $= \frac{4\cancel{x}(x+5)(x+4)\cancel{(x+4)}}{\cancel{x} \cdot x\cancel{(x+4)}}$ $= \frac{4(x+5)(x+4)}{x}$
37.	$\frac{16x(x-4)}{x+4}$	$\frac{8x^2}{x+4} \div \frac{x}{2(x-4)} = \frac{8x^2}{x+4} \cdot \frac{2(x-4)}{x}$ $= \frac{16(x)(\cancel{x})(x-4)}{\cancel{x}(x+4)}$ $= \frac{16x(x-4)}{x+4}$
41.	$\frac{5(x+1)}{x-1}$	$\frac{x^2-x-2}{x^2+4x-5} \div \frac{x-2}{5x+25} = \frac{x^2-x-2}{x^2+4x-5} \cdot \frac{5x+25}{x-2}$ $= \frac{(x-2)(x+1)}{(x+5)(x-1)} \cdot \frac{5(x+5)}{x-2}$ $= \frac{5\cancel{(x-2)}(x+1)\cancel{(x+5)}}{\cancel{(x+5)}(x-1)\cancel{(x-2)}}$ $= \frac{5(x+1)}{x-1}$