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$$1) \frac{11}{x-2}; \sqrt{5} \frac{55}{5x-10}; \sqrt{x} \frac{11x}{x^2-2x}; \sqrt{x+2} \frac{11x+22}{x^2-4}; \sqrt{x+2} \sqrt{5} \frac{55x+110}{5x^2-20}$$

$$2) \frac{3}{a+3}; \sqrt{2} \frac{6}{2a+6}; \sqrt{a} \frac{3a}{a^2+3a}; \sqrt[?]{\frac{?}{(a^2+3)^2}}; \sqrt{3-a} \frac{9-3a}{9-a^2}$$

$$3) \frac{2}{b-1}; \sqrt{4} \frac{8}{4b-4}; \sqrt{b^2} \frac{2b^2}{b^3-b^2}; \sqrt{b^2+1} \frac{2b^2+2}{b^2-1}; \sqrt{b^2+b+1} \sqrt{2} \frac{2b^2+2b+2}{9-a^2}$$

$$4) \frac{c}{c+4}; \sqrt{10} \frac{10c}{10c+40}; \sqrt{c-4} \frac{c^2-4c}{c^3-1}; \sqrt{4-c} \sqrt{2} \frac{8c-c^2}{b^2-1}; \sqrt{c+4} \frac{c^2+4c}{c^2+8c+16}$$

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$$1) \frac{x^2+xy}{x^2} = \frac{x(x+y)}{x \cdot x} = \frac{x+y}{x} = \frac{x}{x} + \frac{y}{x} = 1 + \frac{y}{x}$$

$$2) \frac{xy+y}{y^2+y} = \frac{y(x+1)}{y(y+1)} = \frac{x+1}{y+1}$$

$$3) \frac{a+2}{a^2+2a} = \frac{a+2}{a(a+2)} = \frac{1}{a}$$

$$4) \frac{4m^2-9}{2m+3} = \frac{(2m-3)(2m+3)}{2m+3} = 2m-3$$

$$5) \frac{5x-10}{(x-2)^2} = \frac{5(x-2)}{(x-2)(x-2)} = \frac{5}{x-2}$$

$$6) \frac{(n-3)^2}{6-2n} = \frac{(n-3)(n-3)}{-2(n-3)} = \frac{n-3}{-2}$$