

Name: _____

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11. * The expression $\left(\frac{3x^2+81}{2(x^2-3x+9)}\right)^2$ is equivalent to:

A. $\frac{81(x+3)^2}{16}$

B. $\frac{(x^2+27)^2}{16}$

C. $\frac{81}{16}$

D. $\frac{81}{16(x-3)^2}$

12. * The expression $\frac{3x^2-8x+5}{x^2-1} \cdot \frac{x+1}{2(x-2)} + \frac{3x^2+x-10}{x^2-4}$ is equal to:

A. $\frac{1}{2}$

B. $\frac{3}{4}$

C. 4

D. 2

13. * The expression $\frac{2x^2+2xy+2y^2}{x^2-y^2} \cdot \frac{2x+2y}{y^2-x^2}$ is equivalent to:

A. 0

B. $\frac{4}{y-x}$

C. 4

D. $\frac{4}{x-y}$

14. * Simplify the expression $\frac{x^3-x^2-x+1}{x^2-2x^2+1}$

A. $\frac{1}{x-1}$

B. $\frac{1}{x+1}$

C. $\frac{x+1}{x^2+1}$

D. $\frac{x-1}{x^2+1}$

15. * The expression $\frac{x^2+2ax+a^2}{2a^2} \cdot \left(\frac{a}{x-a} - \frac{a}{x+a}\right)$ is equivalent to:

A. $\frac{x^2}{x+a}$

B. $\frac{x+a}{a-x}$

C. $\frac{x+a}{x-a}$

D. $\frac{ax}{a-x}$

16. * Evaluate $\frac{1}{3+x} - \frac{2x-1}{x} + \frac{6x-3}{x^2+x}$ when $x=-\frac{1}{2}$:

A. 0

B. 2

C. 4

D. -2

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Y Pai

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