

12.4 b

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$$\frac{\cancel{2m(m^2+1)}}{\cancel{2m^2} + \cancel{2m}} \cdot \frac{m-1}{\cancel{4} \cancel{m^2} + \cancel{4}} = \frac{\cancel{2}(m-1)}{\cancel{4}(m^2+1)} \cdot \frac{m-1}{\cancel{2}m-4}$$

$$\frac{m^2 - 2m}{m(m^2 - 2)} \cdot \frac{m-1}{4(m^2+1)} = \frac{m-1}{2(m-2)} \cdot \frac{m-1}{2m-4}$$

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Class Work

p. 902 # 24-30 (not 27), 32, 34, 36, 39, 40, 41, 46- 49, 51.

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$$1.) \frac{\cancel{2}4\cancel{h}j^{\cancel{2}}}{\cancel{5}j^{\cancel{3}}} \cdot \frac{\cancel{3}h^{\cancel{3}}k}{\cancel{h}^{\cancel{3}}\cancel{k}^{\cancel{2}}} = \frac{\cancel{6}h^{\cancel{3}}j^{\cancel{2}}k}{\cancel{5}j^{\cancel{3}}\cancel{k}^{\cancel{2}}} \cdot \frac{6h}{5jk^2}$$

$$\frac{6h}{5jk^2}$$

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$$14. \frac{\cancel{(x+1)}\cancel{(x+4)}}{\cancel{x^2+5x+4}} \cdot \frac{\cancel{(x-4)}\cancel{(x+2)}}{\cancel{x^2-2x-8}} = x+1$$

$$\frac{\cancel{x^2+6x+8}}{\cancel{(x+4)}\cancel{(x+2)}}$$

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$$24. \frac{\cancel{3r^2t}}{\cancel{6st^2}} \cdot \frac{\cancel{2t^2s^3t^2}}{\cancel{8r^4s^2}} = \frac{6r^4s^3t^3}{48r^4s^3t^3}$$

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$$25. \frac{10}{y+5} \cdot \frac{y+2}{3}$$

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$$26. \frac{3}{2a+6} (a^2 + 4a + 3)$$

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28. $\frac{x}{2x^2 - 12x + 18} \cdot \frac{2(x^2 - 2x - 3)}{(2x^2 - 4x - 6)}$

~~$2(x^2 - 6x + 9)$~~
 ~~$(x-3)(x+1)$~~
 $\frac{x(x^2 - 2x - 3)}{(x^2 - 6x + 9)}$
 ~~$(x-3)(x-3)$~~

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

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29. $\frac{6n^2 + 18n}{n^2 + 9n + 8} \cdot \frac{n^2 - 1}{2n + 6}$

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30.
$$\frac{\cancel{3a^2b}}{\cancel{5a^3 + 10a^2b}} \cdot \frac{\cancel{2(a+b)}}{\cancel{2a + 4b}}$$

$$\frac{5a^2(\cancel{a+b})}{\cancel{5a^2}(\cancel{a+b})} \cdot \frac{\cancel{6a^3b} + \cancel{6a^2b^2}}{\cancel{6a^2b}(\cancel{a+b})}$$

$$\frac{\cancel{2}}{\cancel{10}a^2(a+2b)} = \frac{1}{5a^2(a+b)}$$

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32.
$$\frac{\cancel{6j^2k^2}}{\cancel{8j}} \cdot \frac{\cancel{3j}}{\cancel{4j^3k^3}} = \frac{18k^2}{20j} = \frac{9k^2}{10j}$$

$$\frac{j^3}{j^4} \quad \frac{k^5}{k^3}$$

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34.
$$\frac{\cancel{(x+3)}\cancel{(x-3)}}{\cancel{x^2-9}} \cdot \frac{\overset{4}{\cancel{16x}}}{\cancel{4x^2-12x}} = \frac{4}{(x+3)}$$

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36. **/// ERROR ANALYSIS ///** Which is incorrect?

Explain the error.

A

$$\frac{4a^2 - b^2}{a^2} \cdot \frac{a}{2a - b}$$

$$\frac{\cancel{4}a^2 - b^2}{a^2} \cdot \frac{\cancel{a}}{2\cancel{a} - b} = \frac{2 - b^2}{b}$$

B

$$\frac{4a^2 - b^2}{a^2} \cdot \frac{a}{2a - b}$$

$$\frac{(2\cancel{a} - b)(2a + b)}{a^2} \cdot \frac{\cancel{a}}{2\cancel{a} - b} = \frac{2a + b}{a}$$

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39.
$$\frac{6m^2 - 18m}{12m^3 + 12m^2} \div \frac{m^2 - 9}{m^2 + 4m + 3}$$

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40.
$$\frac{\cancel{2x^2}}{\cancel{4x - 8}} \cdot \frac{\cancel{(x-3)}\cancel{(x-2)}}{\cancel{x^2} \cancel{5x + 6}} \cdot \frac{x-3}{2x^3}$$

(Note: In the original image, the denominator of the second fraction is written as $x^5 3$ with a red '3' and a blue '5'.)

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41. $\frac{x^2 - 9}{4x} \div (4x^2 - 36)$

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46. Which expression is equivalent to $\frac{t + 4}{9} \cdot \frac{t + 4}{3}$?

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47. Identify the product $-\frac{20b^2}{a^2} \cdot \frac{3ab}{15b}$.

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48. Which of the following is equivalent to $\frac{2x}{x+5}$?

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49. **Short Response** Simplify $\frac{x^2 - 10x + 24}{3x^2 - 12x} \div (x^2 - 3x - 18)$.

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51. $\frac{x^2 - 1}{x + 2} \div \frac{3x + 3}{x + 2} \div (x - 1)$

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