

Name: _____

Date: _____

2-step backtracking: Answers

(1) $\xrightarrow{-1} \xrightarrow{\times 2}$

x	$x - 1$	$2(x - 1)$
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(11) $\xrightarrow{\div 6} \xrightarrow{+5}$

x	$\frac{x}{6}$	$\frac{x}{6} + 5$
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(2) $\xrightarrow{+6} \xrightarrow{\div 2}$

x	$x + 6$	$\frac{(x+6)}{2}$
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(12) $\xrightarrow{\times 2} \xrightarrow{+7}$

x	$2x$	$2x + 7$
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(3) $\xrightarrow{\times 2} \xrightarrow{-4}$

x	$2x$	$2x - 4$
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(13) $\xrightarrow{+4} \xrightarrow{\times 3}$

x	$x + 4$	$3(x + 4)$
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(4) $\xrightarrow{+2} \xrightarrow{\div 4}$

x	$x + 2$	$\frac{(x+2)}{4}$
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(14) $\xrightarrow{\times 5} \xrightarrow{-9}$

x	$5x$	$5x - 9$
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(5) $\xrightarrow{+4} \xrightarrow{\div 4}$

x	$x + 4$	$\frac{(x+4)}{4}$
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(15) $\xrightarrow{\div 2} \xrightarrow{-10}$

x	$\frac{x}{2}$	$\frac{x}{2} - 10$
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(6) $\xrightarrow{+9} \xrightarrow{\div 10}$

x	$x + 9$	$\frac{(x+9)}{10}$
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(16) $\xrightarrow{\times 8} \xrightarrow{+7}$

x	$8x$	$8x + 7$
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(7) $\xrightarrow{-3} \xrightarrow{\div 1}$

x	$x - 3$	$\frac{(x-3)}{1}$
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(17) $\xrightarrow{\div 4} \xrightarrow{-10}$

x	$\frac{x}{4}$	$\frac{x}{4} - 10$
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(8) $\xrightarrow{-10} \xrightarrow{\times 8}$

x	$x - 10$	$8(x - 10)$
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(18) $\xrightarrow{\div 4} \xrightarrow{-10}$

x	$\frac{x}{4}$	$\frac{x}{4} - 10$
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(9) $\xrightarrow{+7} \xrightarrow{\times 4}$

x	$x + 7$	$4(x + 7)$
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(10) $\xrightarrow{\times 2} \xrightarrow{+6}$

x	$2x$	$2x + 6$
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(19) $\xrightarrow{-6} \xrightarrow{\div 7}$

x	$x - 6$	$\frac{(x-6)}{7}$
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$$(20) \quad \begin{array}{ccc} & \xrightarrow{\times 8} & \xrightarrow{-4} \\ \boxed{x} & \boxed{8x} & \boxed{8x - 4} \end{array}$$

$$(21) \quad \begin{array}{ccc} & \xrightarrow{\times 5} & \xrightarrow{-10} \\ \boxed{x} & \boxed{5x} & \boxed{5x - 10} \end{array}$$

$$(22) \quad \begin{array}{ccc} & \xrightarrow{+10} & \xrightarrow{\times 2} \\ \boxed{x} & \boxed{x + 10} & \boxed{2(x + 10)} \end{array}$$

$$(23) \quad \begin{array}{ccc} & \xrightarrow{-10} & \xrightarrow{\div 10} \\ \boxed{x} & \boxed{x - 10} & \boxed{\frac{(x-10)}{10}} \end{array}$$

$$(24) \quad \begin{array}{ccc} & \xrightarrow{-5} & \xrightarrow{\times 4} \\ \boxed{x} & \boxed{x - 5} & \boxed{4(x - 5)} \end{array}$$

$$(25) \quad \begin{array}{ccc} & \xrightarrow{-8} & \xrightarrow{\times 6} \\ \boxed{x} & \boxed{x - 8} & \boxed{6(x - 8)} \end{array}$$

$$(26) \quad \begin{array}{ccc} & \xrightarrow{\times 10} & \xrightarrow{-8} \\ \boxed{x} & \boxed{10x} & \boxed{10x - 8} \end{array}$$

$$(27) \quad \begin{array}{ccc} & \xrightarrow{-7} & \xrightarrow{\times 5} \\ \boxed{x} & \boxed{x - 7} & \boxed{5(x - 7)} \end{array}$$

$$(28) \quad \begin{array}{ccc} & \xrightarrow{-10} & \xrightarrow{\times 10} \\ \boxed{x} & \boxed{x - 10} & \boxed{10(x - 10)} \end{array}$$

$$(29) \quad \begin{array}{ccc} & \xrightarrow{\div 4} & \xrightarrow{-2} \\ \boxed{x} & \boxed{\frac{x}{4}} & \boxed{\frac{x}{4} - 2} \end{array}$$

$$(30) \quad \begin{array}{ccc} & \xrightarrow{+4} & \xrightarrow{\div 8} \\ \boxed{x} & \boxed{x + 4} & \boxed{\frac{(x+4)}{8}} \end{array}$$

$$(31) \quad \begin{array}{ccc} & \xrightarrow{-8} & \xrightarrow{\times 6} \\ \boxed{x} & \boxed{x - 8} & \boxed{6(x - 8)} \end{array}$$

$$(32) \quad \begin{array}{ccc} & \xrightarrow{+1} & \xrightarrow{\div 10} \\ \boxed{x} & \boxed{x + 1} & \boxed{\frac{(x+1)}{10}} \end{array}$$

$$(33) \quad \begin{array}{ccc} & \xrightarrow{\div 6} & \xrightarrow{+1} \\ \boxed{x} & \boxed{\frac{x}{6}} & \boxed{\frac{x}{6} + 1} \end{array}$$

$$(34) \quad \begin{array}{ccc} & \xrightarrow{\times 10} & \xrightarrow{+9} \\ \boxed{x} & \boxed{10x} & \boxed{10x + 9} \end{array}$$

$$(35) \quad \begin{array}{ccc} & \xrightarrow{+4} & \xrightarrow{\times 5} \\ \boxed{x} & \boxed{x + 4} & \boxed{5(x + 4)} \end{array}$$

$$(36) \quad \begin{array}{ccc} & \xrightarrow{\times 9} & \xrightarrow{-8} \\ \boxed{x} & \boxed{9x} & \boxed{9x - 8} \end{array}$$

$$(37) \quad \begin{array}{ccc} & \xrightarrow{\times 6} & \xrightarrow{+5} \\ \boxed{x} & \boxed{6x} & \boxed{6x + 5} \end{array}$$

$$(38) \quad \begin{array}{ccc} & \xrightarrow{-7} & \xrightarrow{\times 8} \\ \boxed{x} & \boxed{x - 7} & \boxed{8(x - 7)} \end{array}$$

$$(39) \quad \begin{array}{ccc} & \xrightarrow{-7} & \xrightarrow{\div 9} \\ \boxed{x} & \boxed{x - 7} & \boxed{\frac{(x-7)}{9}} \end{array}$$

$$(40) \quad \begin{array}{ccc} & \xrightarrow{\div 10} & \xrightarrow{+5} \\ \boxed{x} & \boxed{\frac{x}{10}} & \boxed{\frac{x}{10} + 5} \end{array}$$