Stack the Deck Activity --- Rational Equations

- Cut out the cards below.
- Place all cards with answer side up.
- Choose one card to flip over.
- Work out that problem.
- Find the answer on one of the other cards.
- Turn that card over and put it on top of the problem you just worked out. Then work the new problem.
- Repeat.

Question:	Question:
$$\frac{x+4}{x} = 6 - \frac{x-2}{x}$$	$$\frac{5}{4x} = \frac{1}{4x^2} + \frac{1}{4x}$$
Question:	Question:
$$\frac{6}{x^2+5x} = \frac{1}{3x} + \frac{5}{3x^2+15x}$$	$$\frac{x+4}{6x} = 1 + \frac{1}{6x}$$
Question:	Question:
$$\frac{1}{2} = \frac{3}{x^2} + \frac{1}{2x}$$	$$\frac{x^2-5x+6}{2x} = \frac{x-6}{2} + \frac{1}{x}$$
Question:	Question:
$$1 - \frac{3}{x^2-3x} = \frac{1}{x}$$	$$\frac{x-6}{x} - \frac{x}{x+3} = \frac{6}{x^2+3x}$$

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Answer: $\dfrac{1}{2}$	Answer: -4
Answer: -8	Answer: $3, -2$
Answer: 4	Answer: $\dfrac{3}{5}$
Answer: $\dfrac{1}{4}$	Answer: 8