4-4 Determinants and Cramer's Rule

✓ Lesson Quiz

Find the determinant of each matrix.

1. $\begin{bmatrix} 6 & 1.5 \\ 10 & 3.5 \end{bmatrix}$

2. $\begin{bmatrix} 3 & 1 & -4 \\ 2 & 0 & -1 \\ 1 & 5 & 4 \end{bmatrix}$

Use Cramer's rule to solve.

3. $\begin{cases} 4x + 3y = 30 \\ 5x - 6y = 31 \end{cases}$

4. Jeff buys 7 apples and 4 pears for $7.25. At the same prices, Hayley buys 5 apples and 9 pears for $10.40. What is the price of one pear?

Holt Algebra 2

4-4 Determinants and Cramer's Rule

✓ Lesson Quiz

Find the determinant of each matrix.

1. $\begin{bmatrix} 6 & 1.5 \\ 10 & 3.5 \end{bmatrix}$ **6**

2. $\begin{bmatrix} 3 & 1 & -4 \\ 2 & 0 & -1 \\ 1 & 5 & 4 \end{bmatrix}$ **−34**

Use Cramer's rule to solve.

3. $\begin{cases} 4x + 3y = 30 \\ 5x - 6y = 31 \end{cases}$ $x = 7, y = \dfrac{2}{3}$

4. Jeff buys 7 apples and 4 pears for \$7.25. At the same prices, Hayley buys 5 apples and 9 pears for \$10.40. What is the price of one pear?   **\$0.85**

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