

ASSIGNMENT

1. Find the first difference of the function $y(x) = 3x^2$.
2. Find the first difference of the function $y(x) = 3x^2 + 5x$.

Solve and Check

3. $y_{x+2} - 6y_{x+1} + 8y_x = 0$.
 4. $3y_{x+2} - 9y_{x+1} + 6y_x = 0$.
 5. $y_{x+3} + 2y_{x+2} - y_{x+1} - 2y_x = 0$.
 6. $y_{x+2} - 4y_{x+1} + 4y_x = 0$.
 7. $y_{x+3} - 5y_{x+2} + 7y_{x+1} - 3y_x = 0$.
 8. $y_{x+2} + 2y_{x+1} + 4y_x = 0$
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