Problems marked with * are more difficult.

1. Evaluate the following expressions (hint: try to use the most efficient way to do it, do some steps using decimals and other using normal fraction):
$\left(\frac{(2.7-0.8) \cdot 2 \frac{1}{3}}{(5.2-1.4): \frac{3}{70}}+0.125\right): 2 \frac{1}{2}+0.43$
Answer is 0.5 , but you need to show your solution.
2. Factorize the following expressions:

Example: $(a+b) a-b(a+b)=(a+b)(a-b)$

$$
\begin{aligned}
& x(a+b)+y(a+b) \\
& m(n-3)+2(n-3) \\
& 2 a(1-b)-3(1-b) \\
& 7 x(x+2 y)-2(2 y+x) \\
& 2 x(x+2 y)+3 y(x+2 y)
\end{aligned}
$$

3. Fill up the table $(0,5$ is 0.5$)$ :

| $x$ | 1 | 3 | 0 | -1 | -5 | 0,5 | $-\frac{1}{3}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $x-1$ |  |  |  |  |  |  |  |
| $x^{2}-1$ |  |  |  |  |  |  |  |
| $x^{2}-3 x$ |  |  |  |  |  |  |  |
| $2 x^{2}-3 x+7$ |  |  |  |  |  |  |  |

4. Prove, that diagonals of a rectangle are equal.

5. *Construct an isosceles triangle with the angle at the base and altitude to the base equal to the following:

