

Absolutní hodnota

Vypočtěte:

1.1 $| -7 |$;

1.2 $| 15 - 11 |$;

1.3 $| 8 - 12 |$;

1.4 $| 1 - \pi |$;

1.9 $| 3 \cdot (-5) - 2 \cdot (-3) | - | -8 \cdot (-2) - 12 |$;

1.10 $| -5 | | -2 \cdot (-4) + 5 \cdot (-3) | - | -7 \cdot (-2) - 17 |$;

1.11 $| | 9 + 4 \cdot (-5) | - | 5 - (-4) \cdot 3 | \cdot | 10 - 5 \cdot 3 |$;

1.12 $\frac{| -5 + 7 | \cdot | 4 - 3 \cdot 8 |}{| 6 - 10 |}$;

1.13 $\frac{| 5 - 7 | + | 30 - 4 \cdot 8 |}{| 7 - 10 |} + \frac{| -1 | \cdot | 4 - 8 |}{| -4 - 1 |}$;

1.14 $\frac{| 2 - 5 | \cdot | 5 + 3 \cdot (-4) |}{| 7 - 2 \cdot 6 |} - \frac{| 7 - 4 \cdot 2 | \cdot | -11 - 3 \cdot (-3) |}{| 8 - 3 \cdot 6 |}$;

1.15 $\frac{| 2 - 5 | - | 5 + 3 \cdot (-4) |}{| 7 - 2 \cdot 6 |} - \frac{| 7 - 4 \cdot 2 | + | -11 - 3 \cdot (-3) |}{| 8 - 3 \cdot 6 |}$.

Zobrazte na číselné ose čísla, pro která platí:

1.16 $| x | = 0$;

1.17 $| y | = 5$;

1.18 $| d | = -3$;

1.19 $| r | < 2$;

1.20 $| p | > 4$;

1.21 $| t | \geq 6$;

1.22 $| u | \leq 9$;

1.23 $| v - 3 | > 1$;

1.24 $| q + 1 | < 5$;

1.25 $| z + 2 | \geq 3$;

1.26 $| x - 4 | \leq 2$;

1.27 $| 5 - a | > 4$;

1.5 $| \sqrt{2} - \pi | + | \sqrt{2} - \sqrt{3} |$;

1.6 $| \sqrt{2} - 1 | - | \sqrt{2} - 2 |$;

1.7 $| 1 - 2 \cdot 3 | + | 7 + 4 \cdot 3 |$;

1.8 $| 5 - 4 \cdot 3 | - | -7 - 2 \cdot 6 |$;

1.28 $| 2 - k | \leq 1$;

1.29 $| -n - 1 | < 3$;

1.30 $| -3 - j | \geq 2$;

1.31 $| m - 3 | < -2$;

1.32 $| b + 1 | \geq -2$;

1.33 $| d + 4 | \geq 0$;

1.34 $| w - 2 | > 0$;

1.35 $| 2f - 2 | > 4$;

1.36 $| 3 - 6u | \leq 9$;

1.37 $| 0,5i + 5 | \geq 3$;

1.38 $| -1 - 0,25q | < 2$.

Řešení

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|-------------|--------------------------------|-------------|--------------------|-------------|--------------|
| 1.1 | 7; | 1.14 | 4; | 1.26 | viz obr. 10; |
| 1.2 | 4; | 1.15 | $-\frac{11}{10}$; | 1.27 | viz obr. 11; |
| 1.3 | 4; | 1.16 | viz obr. 1; | 1.28 | viz obr. 12; |
| 1.4 | $\pi - 1$; | 1.17 | viz obr. 2; | 1.29 | viz obr. 13; |
| 1.5 | $\sqrt{3} + \pi - 2\sqrt{2}$; | 1.18 | nelze; | 1.30 | viz obr. 14; |
| 1.6 | $2\sqrt{2} - 3$; | 1.19 | viz obr. 3; | 1.31 | nelze; |
| 1.7 | 24; | 1.20 | viz obr. 4; | 1.32 | viz obr. 15; |
| 1.8 | -12; | 1.21 | viz obr. 5; | 1.33 | viz obr. 15; |
| 1.9 | 5; | 1.22 | viz obr. 6; | 1.34 | viz obr. 16; |
| 1.10 | 4; | 1.23 | viz obr. 7; | 1.35 | viz obr. 17; |
| 1.11 | 74; | 1.24 | viz obr. 8; | 1.36 | viz obr. 18; |
| 1.12 | 10; | 1.25 | viz obr. 9; | 1.37 | viz obr. 19; |
| 1.13 | $\frac{32}{15}$; | | | 1.38 | viz obr. 20. |



