8

1. : ,
  - . ,
  .

  : .

2.

, $AY = XY$, X Y,
  A. AY X , $\angle AXY = \angle XAY = 24^0$.
    $\angle XYC$ - AXY, $\angle XYC = \angle AXY + \angle XAY = 48^0$.
  Y, C, B X, $XY = XC = XB$,
YXC BXC . , $\angle XCY = \angle XYC = 48^0$, $\angle XCB = \angle ABC$.
    ABC 180^0,
$180^0 = \angle BAC + \angle XCY + \angle XCB + \angle ABC = 24^0 + 48^0 + 2\angle ABC$. ,
$2\angle ABC = 180^0 - 24^0 - 48^0 = 108^0$, $\angle ABC = 54^0$.

  : 54°.

3. " " " ", " " " " — " " " ",
  2 " " " ", . . 200%.

  : 200%.

4. x , $3x$.
    y , $4y$.
    $x+4y-5$, $3x+y-5$. ,
  , $3y=2x$, , y – . , y 5, . .
      5 ,
  . , $y=6$, $x=9$,
    $x+4y-5=9+24-5=28$.
  : 28 .

5. $\overline{ababab} = 10101 \cdot \overline{ab} = 7 \cdot 1443 \cdot \overline{ab}$, $217 = 7 \cdot 31$. $31 -$,
  1443 . $\overline{ababab}$ 217 ,
    $\overline{ab}$ 31, $\overline{ab}$, 31, 62 93.

  : 3.