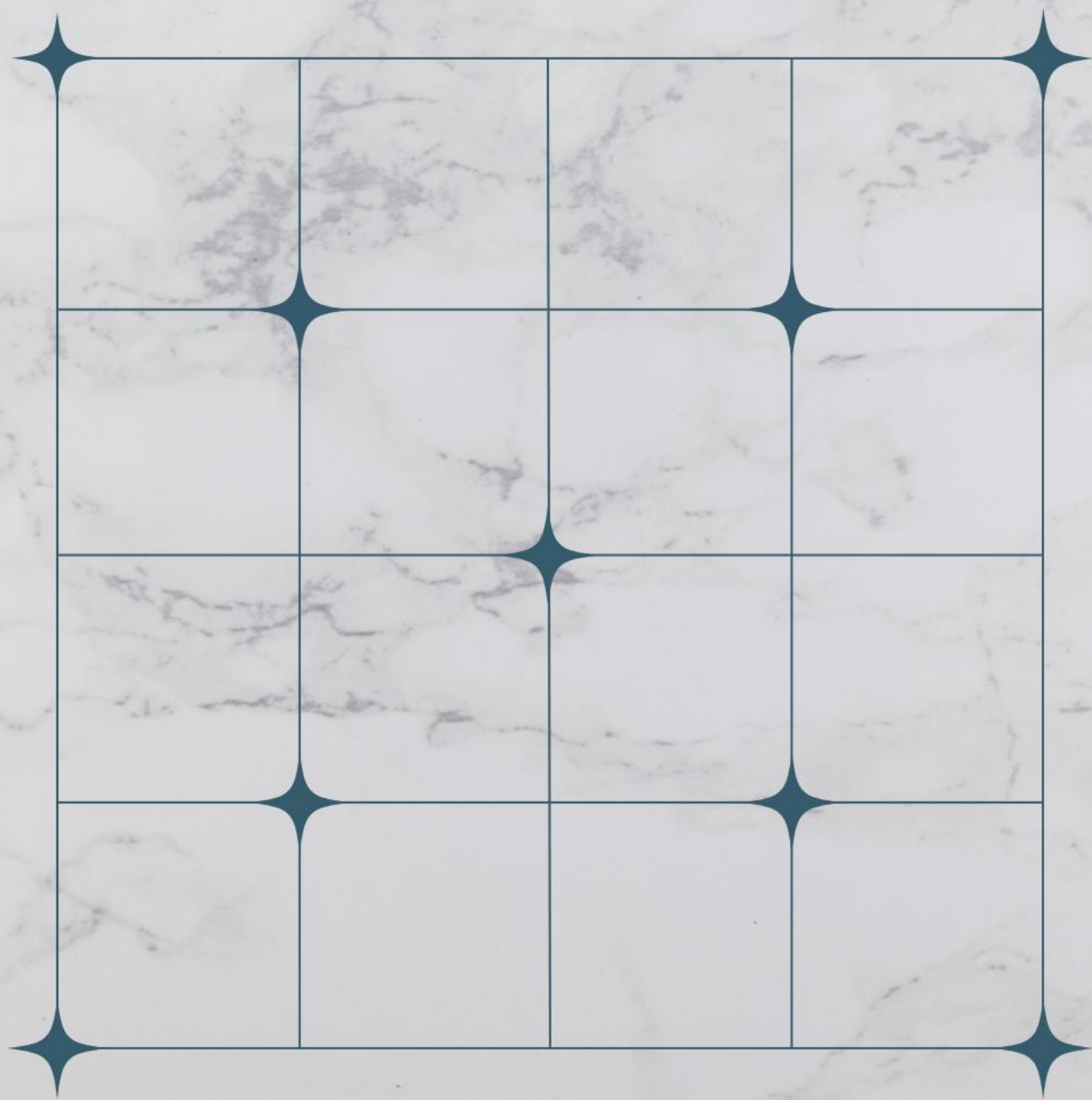
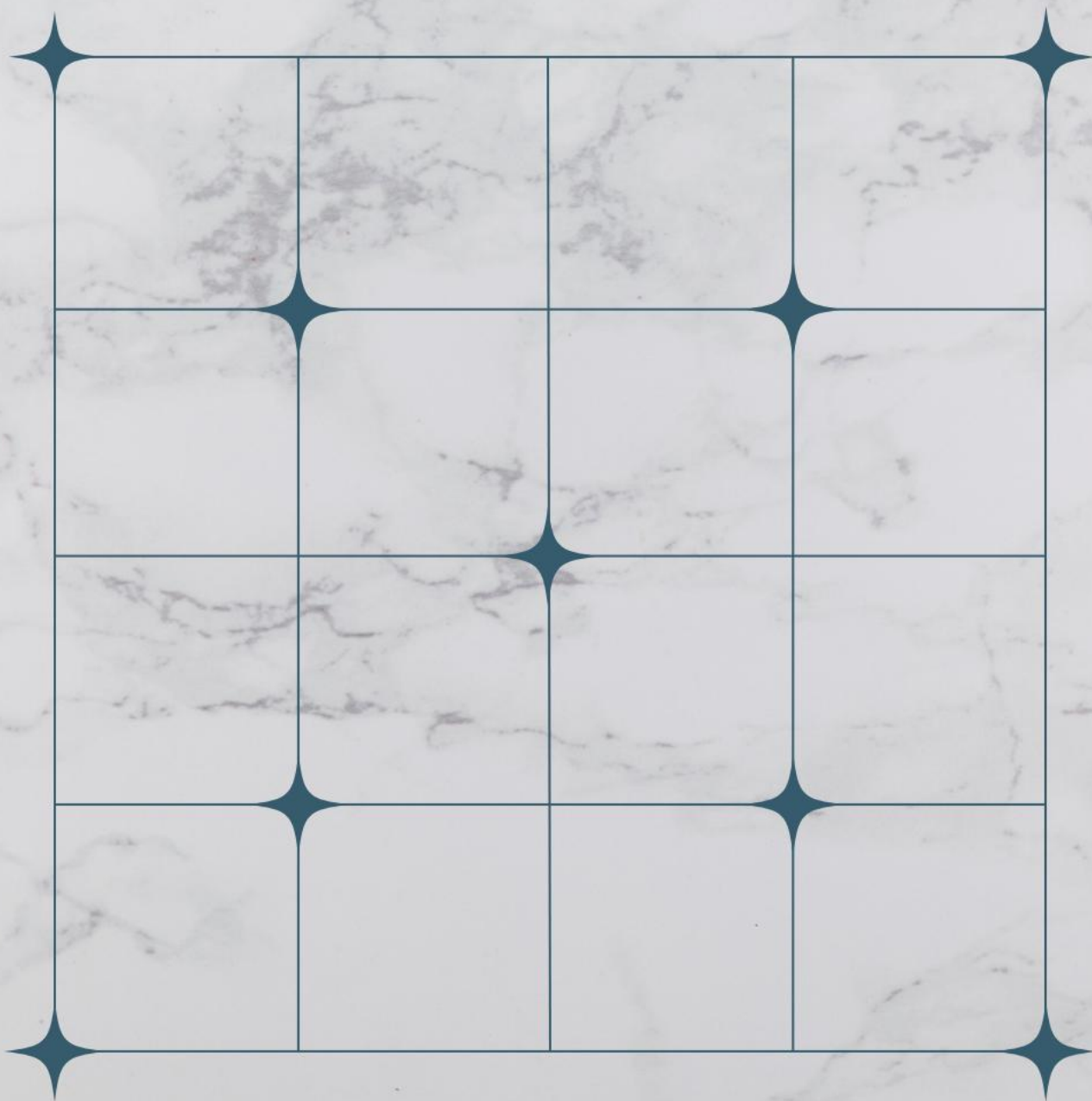


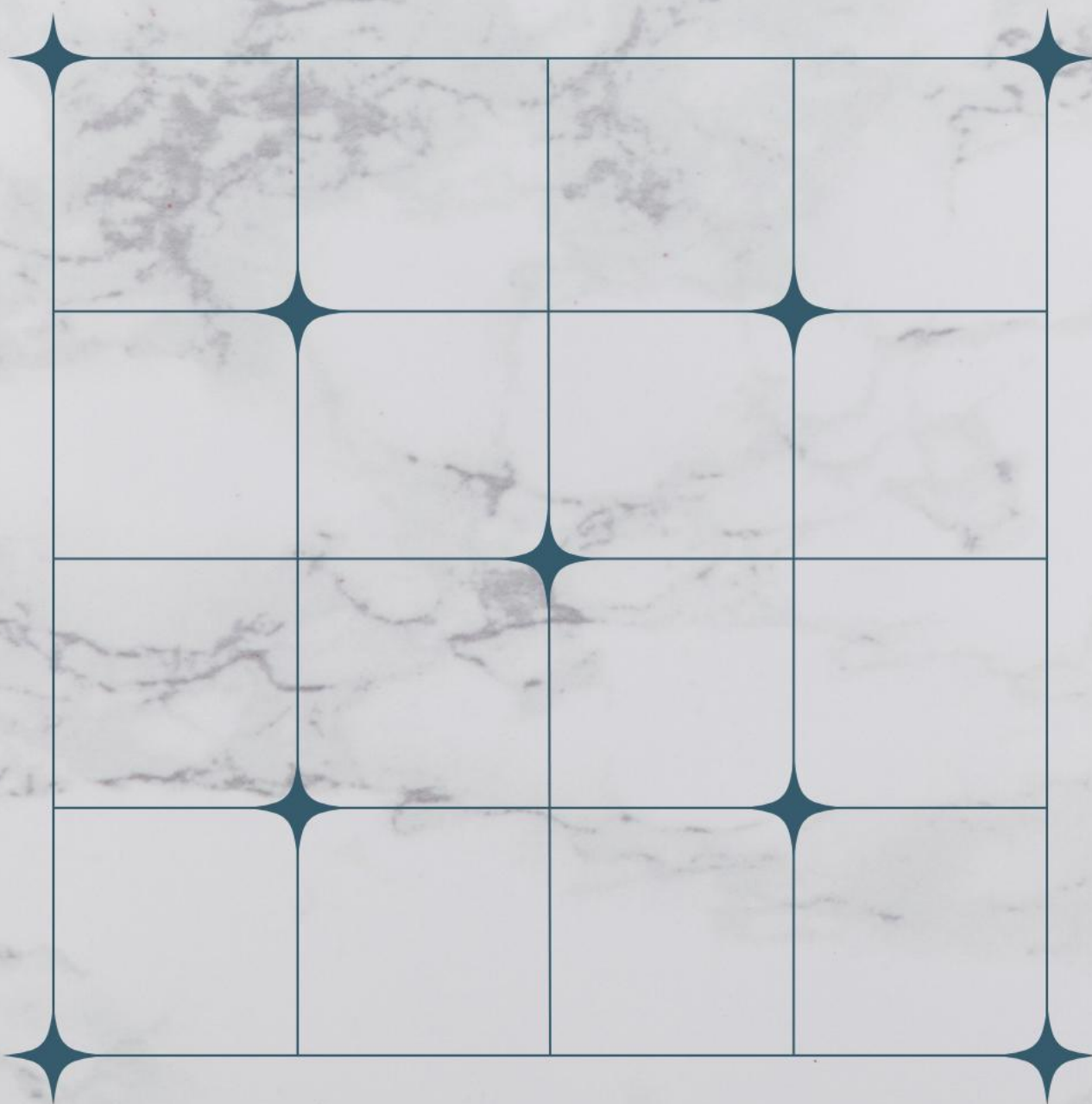
Piškvorcky - A



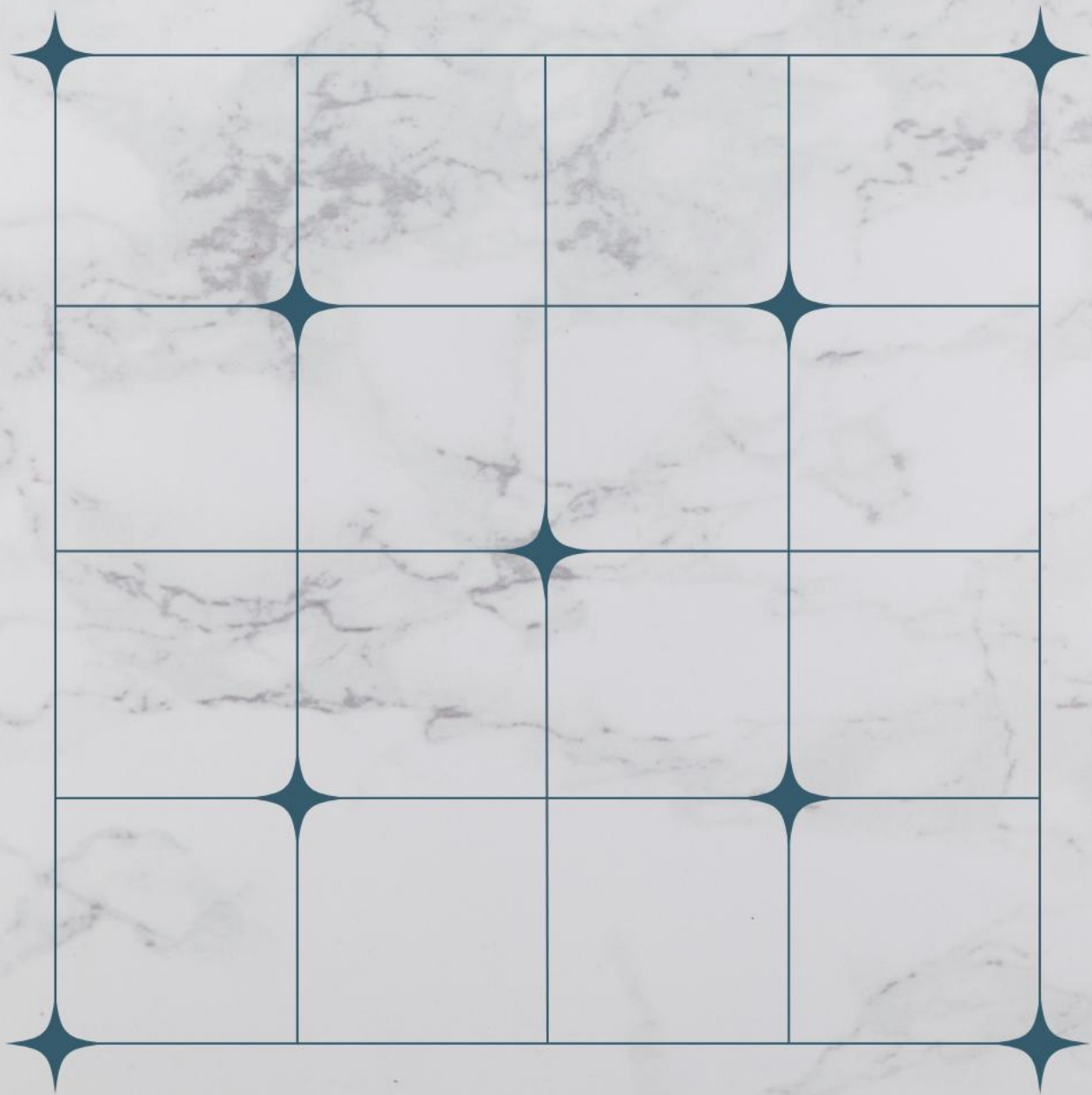
Piškvorky - B



Řešení - A



Řešení - B



Piškvorcky - A

$$4^{x+5} < 16^{x+1}$$

$$2^{x-1} - 2^{x-2} = 5^{x-3} + 2^{x-3}$$

$$\log_{0,2}(x-3) > \log_{0,2} x - \log_{0,2} 2$$

$$\frac{\log_3(6x-2)}{\log_3(x-3)} = 2$$

$$\frac{\log x + 3}{3 - \log x} = 5$$

$$\log_{\frac{1}{2}} x + \log_{\frac{1}{2}} x - 2 = 0$$

$$3^{x+5} < 1$$

$$2^{2x} \cdot 5^x - 2^{2x-1} \cdot 5^{x+1} = -600$$

$$4^x + 6^x = 2 \cdot 9^x$$

$$7 \cdot 4^{-x+2} = 3 \cdot 4^{-x+3} - 5$$

$$\log_3 4 \cdot 2^x + \log_3 3^{x+2} = \log_3 36^x$$

$$\log_5(x^2 - 2x + 1) \geq 0$$

$$\log_{\frac{1}{5}} \log_4(x^2 - 5) > 0$$

$$\log_6(x+1) + \log_6 x = 1$$

$$9^{x-0,5} + 9^{0,5-x} = \frac{10}{3}$$

$$\left(\frac{1}{2}\right)^{x-1} + \left(\frac{1}{2}\right)^{x-2} \leq 3$$

Piškvorcky - B

$$2^x \cdot 2^{x+1} < 2^{x+3}$$

$$2 \cdot 4^x + 5^{x-\frac{1}{2}} = 5^{x+\frac{1}{2}} - 2^{2x-1}$$

$$\log_{20}(x^2-3x) \leq \log_{20}x + \log_{20}5$$

$$\frac{\log(2x+49)}{\log(x+5)} = 2$$

$$\frac{\log x^2 + 7}{\log x + 7} = 2$$

$$\log_{9,25}^2(x-1) - \log_{9,25}(x-1) \geq 0$$

$$2^{3x-4} \geq 1$$

$$3^x \cdot \left(\frac{1}{2}\right)^x + 3^{x+1} \cdot \left(\frac{1}{2}\right)^{x+1} = \frac{5}{3}$$

$$16^x = 8 \cdot 4^x + 2 \cdot 8^x$$

$$4^{2x} - 6 \cdot 4^x + 8 = 0$$

$$\log_5 \cdot 10 \cdot 25^x - \log_5(5^x + 25) = x + 1$$

$$\log_{\frac{4}{7}}(4x^2 + 3x) > 0$$

$$\log_{9,3}(\log_5 \frac{x^2-4}{x+4}) < 0$$

$$\log_2(x+7) - \log_2 x = 3$$

$$2^{x+1} + 2^{x-1} + 2^{x+3} = \frac{21}{8}$$

$$\left(\frac{1}{2}\right)^{-x} - \left(\frac{1}{2}\right)^{x-1} \geq 1$$