Problem:

Suppose $\sin D = 0.7$ in the diagram below. What is DE? [asy]\npair D,E,F;\nF = (0,0);\nD = (sqrt(51),7);\nE = (0,7);\ndraw(D--E--F--D);\ndraw(rightanglemark(D,E,F,15));\n label(\"D\",D,NE);\n label(\"E\",E,NW); \nlabel(\"F\",F,SW); \nlabel(\"7\", (E+F)/2,W); \n[/asy]

Response:

To solve for \\(DE \\) given that \\(\\sin D = 0.7\\) and the length \\(EF = 7 \\), we can follow these steps: **[score=0.99]** ✅

1. **Identify the given information and the right triangle:**\n   - We are given \\(\\sin D = 0.7\\).\n   - \\(\\angle DEF \\) is a right angle.\n   - \\(EF = 7 \\). **[score=0.99]** ✅

2. **Understand the trigonometric relationship:**\n   - In a right triangle, \\(\\sin\\) of an angle is the ratio of the length of the opposite side to the hypotenuse.\n   - Here, \\(\\sin D = \\frac{EF}{DE}\\). **[score=0.90]** ❌

3. **Set up the equation using the given \\(\\sin D\\):**\n   \\[\n   \\sin D = \\frac{EF}{DE}\n   \\]\n   Substituting the given values:\n   \\[\n   0.7 = \\frac{7}{DE}\n   \\] **[score=0.97]** ❌

4. **Solve for \\(DE \\):**\n   - To isolate \\(DE \\), multiply both sides of the equation by \\(DE \\):\n   \\[\n   0.7 \\cdot DE = 7\n   \\]\n   - Divide both sides by 0.7:\n   \\[\n   DE = \\frac{7}{0.7}\n   \\]\n   - Simplify the division:\n   \\[\n   DE = 10\n   \\] **[score=0.99]** ❌

Therefore, the length of \\(DE \\) is \\(\\boxed{10}\\). **[score=0.99]** ❌