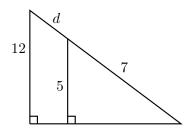
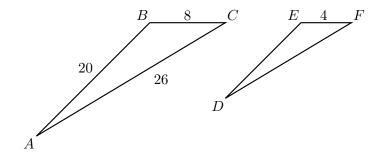
Name:	
MATH 307	"Geometry is the science of correct
Spring 2023	reasoning on incorrect figures"
HW 14. Due 04/26	– George Pólya
HW 14: DHE 04/26	0 2

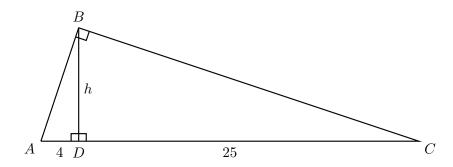
Problem 1. (10pt) Consider the right triangles shown below. Find the value of d.



Problem 2. (10pt) For the triangles ΔABC and ΔDEF , shown below, assume that $\Delta ABC \sim \Delta DEF$. Find the missing sides of ΔDEF .



Problem 3. (10pt) Consider the triangles shown below.



- (a) Explain why $\Delta ADB \sim \Delta ABC$ and $\Delta BDC \sim \Delta ABC$.
- (b) Does (a) imply that $\Delta ADB \sim BDC$? Explain.
- (c) Find h.