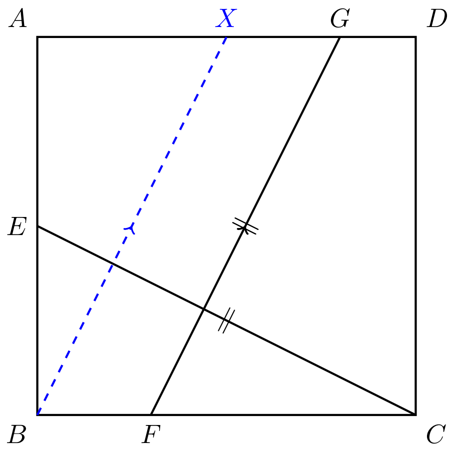
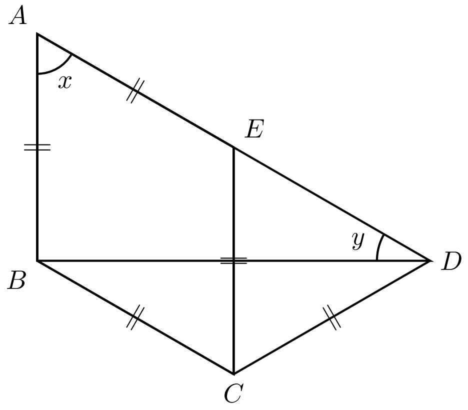
Question 1



Draw BX such that $BX \parallel GF$.
$GX \parallel BF$
$\therefore BFGX$ is a parallelogram.

$BX = GF$	(prop. of $\parallel$gram)
$\quad = EC$	(given)
$AB = BC$	(prop. of square)
$\angle XAB = \angle EBC = 90°$	(prop. of square)
$\therefore \triangle XAB \cong \triangle EBC$	(RHS)
$\angle BEC = \angle BXA$	(corr. $\angle$s, $\cong\triangle$s)
$\quad = \angle AGF$	(corr. $\angle$s, $BX \parallel GF$)
$\angle BEC + \angle EBC + \angle BCE = 180°$	($\angle$ sum of $\triangle$)
$\angle AGF = 90° - \angle BCE$	

Question 2



Let $\angle BAD = x$, $\angle ADB = y$.

$\angle CED = \angle BAD = x$ (corr. $\angle$s, $AB \parallel CE$)

$\angle CBD = \angle ADB = y$ (alt. $\angle$s, $AB \parallel CE$)

$BC = AE$ (prop. of rhombus)

$= CD$ (given)

$\therefore \angle CDB = \angle CBD = y$ (base $\angle$s, isos. $\triangle$)

$\angle CDE = 2y$

$CE = AE$ (prop. of rhombus)

$= CD$ (given)

$\therefore \angle CDE = \angle CED$ (base $\angle$s, isos. $\triangle$)

$x = 2y$

$\angle BAD = 2\angle ADB$